e*Index Global Identifier Product Suite

e*Index[™] 4.1.1 to 4.5.2 Release Bulletin

Version 4.5.2



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Chapter 1

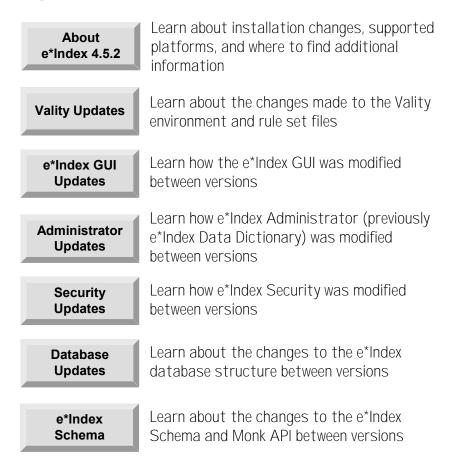
Release Information

About this Bulletin

Overview

This release bulletin for e*Index Global Identifier 4.5.2 describes the differences between e*Index 4.1.1 and 4.5.2. For detailed information on any of the functionality covered in this document, please refer to the supporting documentation or online help. For information about the differences between e*Index 4.5.1 and e*Index 4.5.2, see the *e*Index Global Identifier Release Bulletin*.

The following diagram illustrates the contents of each major topic in this chapter.



General Information

Overview

The section of the chapter provides general information about supported platforms, general updates, and installation procedures for e*Index 4.5.2.

Where to Find More Information

When you upgrade to e*Index 4.5.2, you automatically install updated help systems; you can find information about GUI features in each GUI's help system.

Updated user's guides can be found in the electronic library for e*Index. These guides are located in the **docs** directory on the e*Index CD-ROM. User's guides are provided in PDF format, and require Adobe® Acrobat® Reader (available free over the Internet at http://www.adobe.com).

Installation Changes

Database

The installation procedure has been modified slightly for the e*Index database to accommodate the additional support for Sybase and Microsoft SQL Server. You need to install the appropriate Database e*Way for the database platform you use. If you are migrating your database from version 4.1.1, only Oracle is supported.

Previously when you installed the database, you ran the second installation file, **create2.bat**, from the database server. For version 4.5.2, this file must be run from a client workstation. An additional database script, **install_ssap.bat**, is included to install region-specific security. If you run this file against the e*Index database, you must assign regions to both user profiles and to systems in order to view any member data. The database installation procedures are described in chapters 3, 4 and 5 of the *e*Index Global Identifier Installation Guide*.

Schema

When installing the e*Gate Schema files, you now have the option of installing the sample Schema or just installing the e*Gate binary and library files, along with certain Monk files. For more information, refer to chapter 2 of the *e**Index Global Identifier Installation Guide or the *e**Index Global Identifier Upgrade Guide.

Upgrade Changes

The most important change for this release is the addition of the upgrade package from version 4.1.1 to 4.5.2. The Schema and GUI upgrades are fairly standard, but the database upgrade from 4.1.1 to 4.5.2 is a complex task and requires some analysis and planning. For more information about the database upgrade procedure, see the *e*Index 4.1.1 to 4.5.2 Upgrade Guide*.

Logging On

All e*Index applications use new login windows. On the previous login windows, you could change your login password and, if necessary, access the e*Index initialization file. In the current release, you no longer perform these functions on the login window. You can modify the initialization file, **stc_ua.ini**, by opening it directly in any text editor, and you can change your login password using the new Change Password function of the e*Index applications. The new Change Password procedure for each application is described in chapter 2 of the appropriate user's guide.

New Icons

All e*Index GUI applications have new desktop icons. These icons are illustrated in the sections of this chapter that describe the changes to each application.

e*Index Data Dictionary Renamed

With the new administrative and configuration capabilities of e*Index Data Dictionary, its name has changed to reflect the expanded functionality. The new name of e*Index Data Dictionary is e*Index Administrator.

Initialization File Updates

To support multiple database platforms, the structure of the e*Index initialization file, **stc_ua.ini**, has been modified slightly. It contains three sample database stanzas, one for each supported database platform (Oracle, Sybase, and Microsoft SQL Server). The database stanzas are standard, and did not change from the previous version. The **Platform** variable was removed from the **STC** section, since the database platform is already specified in each database stanza. For more information, see Chapter 6 of the *e*Index Global Identifier Installation Guide*.

Available Platforms

e*Index Global Identifier requires the following software from SeeBeyond and other vendors, and can operate on the operating systems listed below.

SeeBeyond Products

e*Index now requires the following versions of e*Gate and the Database e*Ways:

- e*Gate Integrator 4.5.0 and later
- Oracle e*Way, Sybase e*Way, or ODBC e*Way 4.5.0 or later, depending on the database platform
- HL7 Templates for e*Gate 4.5.0 or later (only if you send HL7 messages)
- e-Mail e*Way 4.5.0 or later (only if you use the Event Notification function)

Database Software

e*Index supports three different database platforms: Oracle, Sybase, and Microsoft SQL Server.

Oracle

Oracle software must be installed as follows in order to install the e*Index database on an Oracle database platform.

- Oracle 8.1.7 Server on the database server
- Oracle 8.1.7 Client on the client workstations and e*Gate host or participating host

Note: SeeBeyond recommends installing Oracle 8.1.7.2.1.

Sybase

Sybase software must be installed in one of the following combinations in order to install the e*Index database on a Sybase database platform.

- Sybase 12.0 Server on the database server
- Sybase 12.0 Client on the client workstations and e*Gate host or participating hosts

Microsoft SQL Server

Microsoft SQL Server software must be installed as follows in order to install the e*Index database on a Microsoft SQL Server database platform.

• Microsoft SQL Server 7.0 on the database server

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• Microsoft SQL Server 7.0 (client components only) on the client workstations and e*Gate host or participating hosts

Operating Systems

Support was increased for the Tru64 operating system to include version 5.0**A**. The e*Index database can be installed on any operating system supported by the database software you chose. Currently, the e*Gate Schema for e*Index is supported on the following platforms:

- Windows NT 4.0 with Service Pack 4.0 or later
- Solaris 2.6 or later
- HP-UX 11.0 or 11i
- AIX 4.3.3 or 5.1
- Tru64 4.0F or 5.0A

The e*Index client workstation is supported on the following platforms:

- Windows 2000 SP2
- Windows NT 4.0 with Service Pack 4.0 or later
- Windows 95
- Windows 98

Initial Load Updates

For e*Index 4.5.x, the initial load is no longer performed by running an executable file. The new initial load program uses two e*Index Schemas to convert legacy data into the e*Index database in batches. This allows you more flexibility in running the initial load and improves processing. The load is still performed in two steps. Data is validated and standardized in the first step, and loaded into the database in the second step. For more information about the new initial load Schemas, see the *e*Index Initial Load User's Guide* for e*Index 4.5.2.

Vality Rule Set Modifications

Overview

This section provides information about the changes made to the Vality Real Time environment for e*Index and changes to the rule set files. Note that, for the migration from version 4.1.1 to 4.5.2, it is assumed that the 4.5.2 rule set will be customized to provide matching logic similar to that defined in your 4.1.1 rule set in order to maintain processing consistency.

Version Update

e*Index 4.1.1 uses Vality 3.6, but e*Index 4.5.2 has been upgrade to Vality 3.11. The Vality commands used in the default **UI.RUL** file are all supported by Vality 3.11. For more information about the differences between Vality versions 3.6 and 3.11, refer to the appropriate Vality documentation.

File Changes

Between e*Index 4.1.1 and 4.5.2, several changes were made to the e*Index rule set files for name matching (the **UI** rule set). The most notable changes include advanced matching commands in the **UI.RUL** file and expanded pattern-action commands in **UI.PAT**. This section describes the changes to each file.

UI.RUL

The default rules file (**UI.RUL**) provided in the e*Index rule set for the matching algorithm was enhanced with a more fine-tuned matching logic. The changes include adding a cutoff weight and a new section with override weights for the DOB, Sex, and SSN fields. For more information about the statements that were added, see "Modifying Rules (.RUL) Files" in chapter 6 of the *e*Index Administrator User's Guide*. For more information about the Vality commands used, see the *INTEGRITY Real Time User Guide for C* (published by Vality).

The code below illustrates the new sections.

```
WGT DOB AR=A DW=-10 AV=ALL BV=ALL
WGT SEX AR=A DW=-10 AV=ALL BV=ALL
WGT SSN AR=A AW=5 DW=-5 AM=.001 BM=.001 XM=.001 AV=ALL BV=ALL
;
CUTOFF 0.1
```

In addition, the values for the match statements in the second section of the rules file were changed. The sample below illustrates the modified statements.

MATCH UNCERT SF STD_FNAME 0.9 0.001 800 MATCH UNCERT LN LNAME 0.9 0.001 800 MATCH CNT_DIFFSYSSN 0.999 0.0001 2 MATCH CNT_DIFFBD DOB 0.9 0.001 1 MATCH CHAR SXSEX 0.9 0.5

Finally, the MISSINGOK command was added for the SSN field in the VARTYPE section.

The above changes necessitated changes to the default duplicate threshold (specified by the DUPTHRES control key) and the match threshold (specified by the MATCHTHRES control key). The new values are 7.25 for DUPTHRES and 29 for MATCHTHRES.

UI.PAT

This file was modified to provide more complete pattern-action commands. The new file must contain the following lines to generate phonetic codes, so they should not be modified.

```
;Find first name only no last name
& | \; | \; | **
COPY [1] {FN}
COPY [1] {SF}
CONVERT {SF} @ui.tbl
RETYPE [1] 0
RETYPE [2] 0
;Find last name only no first name
\; | ? | \; | **
COPY_S [2] {LN}
RETYPE [1] 0
RETYPE [2] 0
```

UI.DCT

The field lengths and byte offsets have changed to accommodate new column sizes in the database. The first name, last name, and standardized first name fields all increased from 30 characters to 100. The SSN field increased from 11 characters to 16. The phonetic first name and phonetic last name fields decreased from 30 characters to 8 (since NYSIIS codes are only 8 characters in length). These changes also change the total length of each record passed to Vality and the byte offset for each field.

UI.CLS

There were no changes to this file between versions 4.1.1 and 4.5.2.

UI.STN

The size of the input record changed from 170 to 350 due to the field length changes in the match key dictionary. This affects line 1 and line 4 of the file.

UI.TBL

No changes were made to the **UI.TBL** file, however the way the information is stored in the database has changed. The file content is no longer stored in and downloaded from the *ui_ctrl_file* table. The file content is stored in and downloaded from the *ui_nickname* table. This means you no longer need to load nickname information using the Rule Set Maintenance function of e*Index Administrator, but you can modify the nickname table directly. Make sure you understand Vality name override tables and first name standardization rule before modifying this table.

Vality and the Control Broker

In previous versions of e*Index, it was a requirement that the Control Broker for e*Index be started from the **\client\bin** directory due to restrictions on the Vality rule set files. In the current version of e*Index, the Control Broker no longer needs to be started from **\client\bin** due to changes to how the VTICFG environment variable is set. On the client workstations, VTICFG is automatically set to the current working directory ("."); on the Schema server, VTICFG is defined by **ui-set-vticfg** in the function **ui-stdver-init**, which is set to **\get-data-dir\bin** (by default, **\<eGate>\client\bin**).

Address Parsing

Unlike e*Index 4.1.1, e*Index 4.5.2 uses two Vality rule sets. The rule set for name matching is similar to that used by 4.1.1 (with the changes mentioned above). The new rule sets are used for parsing the components of addresses, and you have the option of choosing a rule set specific to Australia, Great Britain, France, Ireland, or the United States. The address-parsing rule sets support searching by addresses in the e*Index GUI.

e*Index Global Identifier GUI Enhancements

Overview

Major updates and enhancements have been made to the e*Index GUI to improve flexibility and to expand on the member information that can be displayed. New functions were added to the e*Index GUI, including the ability to enter data in mixed-case format, a user audit log, address searching, the ability to change the status of a local ID record, and so on. This section describes the new functionality of the e*Index GUI.

New Icon



e*Index Global Identifier has a new desktop icon. To access e*Index Global Identifier from the desktop, you need to click the new icon.

Terminology Changes

For this version of e*Index three fields on the e*Index GUI have been renamed. The functionality of these fields remains the same; only the names have changed.

- **Facility** has been changed to **System**.
- What was previously **System** is now **Source**.
- **Sex** has been changed to **Gender**.

Note: With the new display configurability (see below), field names may be modified by the System Administrator. The fields you see on your e*Index windows may not match the descriptions in the e*Index Global Identifier User Guide.

Display Configurability

Another major change to the e*Index GUI is the ability to customize the fields that appear on the GUI windows. You can specify a name for each field and determine which fields will be visible and which will be hidden. This flexibility allows you to determine the type of information you will display and store, and how much information you will display. Field configuration is performed in the Configuration Maintenance function of the e*Index Data Dictionary (see "Display Configuration" later in this bulletin).

French Character Set

Country localization for e*Index has been expanded to include the French character set. The e*Index GUI now accepts and recognizes data entered in French characters. To support searching on French addresses, the FRADDR address rule set was added. For more information, see "French Localization" later in this chapter.

Field-level Enhancements

Several new fields have been added to e*Index. By default, most of these fields are hidden, but can be configured to display on the GUI windows. The new fields include: Person Category, Address 3, Address 4, Driver License, License State, Deceased, Date of Death, Death Cert., Nationality, Pension No., Pension No. Expiration Date, Repatriation No., District of Residence, LGA, Military Branch, Military Rank, Military Status, and the miscellaneous fields String 1 through String 10 and Date 1 through Date 5. In addition, the Middle Name field replaces the Middle Initial field, and can display either the middle initial or the middle name. Your system administrator can now specify which fields are required when entering person data.

Person Categories

e*Index now provides the ability to group the members in the e*Index database by category. The Person Category field allows you to group members according to categories defined by your business requirements. Categories may include groups such as employees, customers, patients, and so on. By assigning members to person categories, you provide the ability to search for a specific subset of members in the database.

Non-unique IDs

e*Index has always stored a member's unique IDs as assigned by the various systems within an organization. The new version of e*Index also allows you to store a member's *non*-unique IDs. Non-unique IDs could include such identification codes as an insurance policy number shared by all members of a family, an account number shared by all members of a family, a department code shared by a group of employees, and so on. Non-unique ID types are defined in e*Index Administrator.

Functional Access Changes

Previously in e*Index, the functions Update, Local ID Update, and Deactivate were accessed directly from the primary toolbar and from the Functions menu. In the new version of e*Index, these functions are all accessed through the **Search & View Persons** function. Once you perform a search for a

member and display the member profile, you can update the profile, update the local ID, update the member's alias names, or deactivate the profile. The windows on which local IDs and aliases are updated have changed (for more information, see "Adding an Alias to a Member Profile" and "Adding a Local ID to a Member Profile" in chapter 4 of the *e*Index Global Identifier User Guide*).

F<u>u</u>nctions

The functions Local ID Update, Update, and Deactivate have been removed from the Functions menu

/	Add	Ctrl+Shift+A
/	A <u>u</u> dit Trail	Ctrl+Shift+T
	<u>C</u> ompare	Ctrl+Shift+C
	<u>M</u> erge	Ctrl+Shift+M
	Potential <u>D</u> uplicate	Ctrl+Shift+D
	<u>Search & View persons</u>	Ctrl+Shift+S
	U <u>n</u> Merge	Ctrl+Shift+U

Application Window Enhancements

Previously, all the information stored in a member profile could be displayed on one window. With the addition of new data fields and the ability to store multiple addresses and telephone numbers, additional windows are required in order to display a member's full information. Member information is now displayed on a series of tabbed pages in the lower portion of the application windows. When you select a new tab on the application window, the type of member information that is visible changes. The upper portion of the application windows displays identifying information about the member, such as their UID, name, date of birth, and so on. No matter which tabbed page you display, this information always appears in the upper portion of the window.

	View/Update			
	Identification UID 100-005-1	3900 Statu	s ACTIVE	View
	Last Name WARREN DOB 05/14/19 R/Access NONE		ELIZABETH FEMALE PATIENT	Middle Name JUNE SSN 555-44-4555
Member	Demographics Miscella	neous Addresses Phones Aliase	s Local IDs Other IDs Comm	nents
profiles are now displayed on a series of	Title Religion AGNOS Race OTHER		ge ENGLISH	Marital Status MARRIED Ethnic Group AMERICAN
tabbed pages	Maiden JOHNS Mother's Maiden CENTO			Spouse's Name DAVID
	<u>Mrg</u> Hist	Edit Save Audit Irail	Pot. Dyp Preyious <u>N</u> ext	P_int Deactivate Dose

Member information is displayed under the following tabbed pages:

- **Summary**: This optional page displays similar information to the standard e*Index 4.1.1 Detail Inquiry window. This page only appears if the PVSUMMARY control key is set to **Y**.
- **Demographics**: This page displays general information about a member, such as their racial and ethnic backgrounds, religion, language, and so on.
- Miscellaneous: This page displays any type of information about the member that your organization defines. These are customizable fields, provided to display data types that are specific to your requirements.
- **Addresses**: This page displays all of the different addresses associated with the member profile.
- Phones: This page displays all of the different telephone numbers associated with the member profile.
- Aliases: This page displays all of the member's aliases.
- **Local IDs**: This page displays all local ID and system pairs associated with the member profile, along with the status of each pair.
- Other IDs: This page displays all non-unique IDs associated with the member profile.
- **Comments**: This page displays all of the comments that have been written to the member profile.

Note: The Add window does not display the Local IDs, Aliases, or Comments page.

Summary Tab

With the previous redesign of the e*Index GUI, member information that once appeared on one window now appears on several tabbed pages in order to accommodate additional information. This caused critical member information to be spread over several windows. The Summary page was created to display information similar to that displayed on the original e*Index Detail Inquiry window. The Summary page is configurable, and only appears if the PVSUMMARY control key is set to **Y**. With the Summary page enabled, you can view all vital information on one window. This is the first page to appear when you select a member profile from the search results list.

For complete information about the new Summary page, see chapter 3 of the *e*Index Global Identifier User's Guide*.

	🔁 View/Edit Person		
Use the Summary	Identification UID 100-000-0000	Status ACTIVE	View Update Date 06/26/2001 19:10:07
page to view a summary of member	Last Name WARREN DOB 05/14/1960 R/Access NONE	First Name ELIZABETH Gender FEMALE Person Category CUSTOMER	Middle Name JUNE SSN 555-44-4555
information		Addresses Phones Aliases Local IDs	Other IDs Comments
	Primary Address Address1 Address2 Address3 Address4 City CAPE BURR County [CAP State Country UNITED STATES Aliases Last Name First Name JOHNSON LIZ WARREN LIZ	Maiden JOHNSON Race OTHER Local IDs Je Name System WAYFIELD CAPE BURR CENTER SHEFFIELD CENTER	Suffix Ethnic Group AMERICAN Local Identifier Status 43-535353 ACTIVE 345-835-8834 ACTIVE 345-835-8834 ACTIVE

Comparison Search Window

Previously, when you searched for a member profile using the left **Search** button on the Comparison window, the member information did not appear until you clicked the **Search** button again. This has been modified so the Comparison window automatically updates after a search is performed.

Potential Duplicate Changes

On the Potential Duplicate Search page, the **Department** field was removed. On the Potential Duplicate Results page, the matching probability weight is no longer displayed in the **Reason** column, but now appears in a new column named **Weight**. The reason for the potential duplicate flag still appears in the **Reason** column.

Audit Trail and Potential Duplicate Search Changes

For an Audit Trail search, the field **Person Category** has been added to the possible search criteria. For both the Audit Trail and Potential Duplicate searches, the **Department** field has been removed. The fields on the Audit Trail Results window have been modified as well. For more information about the fields displayed on the Audit Trail Results page, see "About Audit Trail Results Fields" in chapter 4 of the *e*Index Global Identifier User Guide*.

Previously, there was an issue in the Audit Trail search functionality that caused a system error when the number of records for an audit trail search exceeded the value specified for the control key **ATSRCHLMT** (audit trail search limit). This error is no longer produced.

Previously when an alias was added to a person record, no history record was created. In version 4.5.2, a history record is created in this instance and the alias appears on the audit trail window.

Search Window Changes

Several changes were made to the Search window for this release, including the addition of the Person Category field, the Other ID Search section, and the General Search page. The Search page on the Search window has been renamed to **Standard Search**. For more detailed information about the changes to the Search window, see "Searching for Member Profiles" in chapter 3 of the *e*Index Global Identifier User Guide*.

Other ID

A new search section, **Other ID**, has been added to the Standard Search page. This section allows you to search for a member in the database using a nonunique ID and non-unique ID name as the criteria.

	E	# Search		×
		Standard Search General Search	rch Results	
		- Demographic Last Name WARREN DOB 05/14/1960	First Name ELIZABETH Middle Name J Range 10	
		Gender FEMALE SSN 555-44-4555	Mother's Maiden Maiden GORDON	
A new section, Other ID, has been added to the		Person Category CUSTOMER Social Security Number SSN		
Standard Search page		System/Local ID	Local ID	
		Other ID Other ID Name	Other ID	
		Audit <u>Tr</u>	rail Pot. <u>D</u> up Alpha Phonetic <u>G</u> eneral <u>P</u> rint Clear <u>C</u>lose	

Person Category

The search window has been modified by the addition of the **Person Category** field to the Demographic Search section. Using this field, you can make a search more specific by selecting the type of member profile you want to find (such as customer, employee, patient, and so on). This new field is not required in order to perform a search.

	🛗 Search	
	Standard Search General Search Results	
An additional field, Person Category, has been added to the Demographic section of the Standard Search page	UID UID Demographic Last Name WARREN DOB 05/14/1960 Gender FEMALE SSN 555-44-4555 Person Category CUSTOMER Social Security Number	
	SSN System/Local ID Local ID Local ID	
	Other ID Other ID Name Other ID Other ID	
	Audit Irail Pot. Dup Alpha Phonetic General Print Clear Close	

General Search Page

A new page, the **General Search** page, has been added to the Search window. This page provides the ability to perform a search on any combination of data contained in the *ui_person* table. Note that each search must include at least one indexed field. The records returned for a general search are not weighted for matching probability.

	👬 Search		
A new page,	Standard Search General Search Results		
General Search, has been added to the Search window	UD Last Name WARREN DDB 05/14/1960 Person Category Suffix Language ENGLISH R/Access NONE Maiden Mother's Maiden	First Name ELIZABETH Gender FEMALE Marital Status MARRIED Ethnic Group Veteran Status NONE Father's Name Mother's Name	Middle Name SSN Title Religion Race WHITE
	String 1 String 2 String 3 String 4 String 5 Audit <u>Trail</u> Pot. <u>Dup</u>	String 6 String 7 String 8 String 9 String 10 Alpha Phonetic General Print	Date 1 Date 2 Date 3 Date 4 Date 5 Cleag <u>C</u> lose

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Search Results Page

Previously on the Results page of the Search window, the results of a search could be sorted by any column except **Gender**. The ability to sort by the **Gender** column is provided in the current release. A new column containing

the social security number was added to the search results list on the Results page of the Search window. This column also appears on the Search Result Report that can be printed from the Result page.

Mixed Case Entry and Case-Insensitive Searching

In previous versions of e*Index, data was traditionally stored in all uppercase characters and data entry into the e*Index GUI was limited to uppercase only. Previous versions also performed searches that were case-sensitive (with the exception of phonetic searches). This release provides the option to enter mixed-case data into the e*Index GUI and to enter search criteria in mixed cases. It also allows you to perform case-insensitive searches from the GUI. Most of the name criteria fields are case-insensitive; the **String1** through **String10** fields are case-sensitive.

For Address searches, the parsed fields (by default, Address1 and Address2) are case-insensitive. You can configure which of the Address1 through Address4 fields are parsed. For any of these fields that you set to be parsed, the search criteria is case-insensitive. For any fields that are not set to be parsed, the criteria is case-sensitive. The remaining fields are filter fields, and are always case-sensitive.

Address Searching

e*Index 4.5 and later includes new Vality rule set files that provide the ability to parse address components for addresses in the United States, Great Britain, Ireland, France, or Australia. These rule sets support the new address search capability by parsing addresses into their various components (such as street type, street direction, street name, house number, and so on). When you enter search criteria into the address search fields, e*Index parses that data and compares it against the parsed addresses stored in the database. The results of an address search are not weighted for matching probability.

For complete information about the new address searching functionality, see chapter 3 of the *e*Index Global Identifier User's Guide*.

	Address Search	_ 🗆 🗵
,	Address Search Results	
Search for member /	Address Search	
records by their	Address Type HOME	
address information	Address1 SHORELINE Address3	
on the Address	Address2 Address4	
Search window	City SHEFFIELD County	_
	State Zip - Country	
	<u>S</u> earch Clear <u>C</u> lose	

The list of matching records returned from an address search differs in appearance from the list returned from a demographic search. The address search results list displays a list of addresses that match the search criteria in the upper portion of the window. In the lower portion of the window, e*Index displays member information for the member associated with the address selected in the upper portion of the window.

	🔒 Address Sea	rch						
	Address Searc	h Results						
	Address Type HOME	2347 SHORELI	Address	1	Address2			Address3
A list of matching addresses appears in	НОМЕ	3247 SHORELI	NE ST.		UNIT 5			
the upper portion of	НОМЕ НОМЕ	3247 SHORELI 3248 SHORELI	NE DRIVE					
the window	HOME	4876 SHORELI	NE DRIVE		UNIT 5			F
		JID 100-000-000	04			!	Status <mark>ACT</mark> I	IVE
Member information		me WARTON OB 12/18/1949	1		Name EMILY iender FEMALE	Middle	Name SSN 222-	11-1222
associated with the highlighted address /	Aliases				_ Local IDs			
appears in the lower — portion of the window	Last Nam SANDERS	e F EMILY	irst Name	Middle Name	System SHEFFIELD CENTER	427-420-987		ACTIVE
				Search	Clea <u>r</u> <u>C</u>lose			

Merge Functionality Changes

The process of performing a field-level merge has been changed slightly for this version of e*Index. Previously you could select any field to be saved in the final merged profile. In the new version of e*Index, this process is the same for all information except addresses. Address information can only be selected in blocks. You can no longer select a portion of the address to be saved. For example, if you want to select the street address to be saved in the final merged profile, you must select the entire address. Note that all local IDs are automatically selected to be kept in the final merged profile; you cannot deselect a local ID. For more detailed information about the new merge process, see "Merging Member Profiles" in chapter 4 of the *e*Index Global Identifier User Guide*.

Merge History

In previous versions of e*Index, the Merge History tree displayed the Merge Date/Time and the User only for the resulting profile of a merge. The two child profiles **did** not contain anything in those fields. In the current version of e*Index, the Merge History tree displays this information for each of the child records, and the resulting merged profile does not contain anything in those fields.

In the current version, when you double-click on either of the two child profiles for a merge, the View/Edit Person window displays an image of the profile as it was immediately prior to the merge. **Previously**, **double**-clicking on **a child** profile from a merge displayed an image of the profile in its current state.

Address Types and Telephone Types

Because the new version of e*Index provides the ability to add multiple addresses and telephone numbers to a member profile, you need to specify an address or telephone number type before saving the address or telephone number. For example, if you are entering a member's home address, you need to specify **Home** as the type. Address and telephone types are defined in the e*Index Administrator (for more information, see "Maintenance Function Changes" later in this bulletin.

Changing Local ID Statuses

When two records are merged, all the local IDs associated with both records are retained in the active record with a status of **Active**. This may result in a member profile having two active local IDs from the same system. Previously, you could not change the status of one of these local ID records to **Merged** in order to reconcile data in the active record. The current release provides the ability to change the status of a local ID record by selecting the

desired status from a drop-down menu on the Local ID page of the View/Edit Person window. You can choose any of these three statuses for a local ID record: **Active**, **Deactivated**, **Merged**.

Note: This also changes the method by which a local ID is deactivated. Previously, you selected a **Deactivate** button to deactivate a local ID record. For this release, you select the **Deactivated** status from a drop-down menu in the status column of the Local ID page (as shown below).

Change the status	0001 Status ACTIVE	First Name ELIZABETH Gender FEMALE Person Category PERSON	Edit Middle Name JUNE SSN 555-44-4555
of a local ID record by selecting a status from a drop- down list	Miscellaneous Addresses System CAPE BURR CENTER RDW RDW SeeBeyond SHEFFIELD CENTER SHEFFIELD CENTER	Phones Aliases Local IDs Other IDs C 294-720-9472 949-72-947 949-72-947 949-72-947 949-72-947 949-72-947 949-72-947 949-72-947 949-72-947 949-72-947 949-72-947 949-72-947 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-72-974 949-	Status ACTIVE ACTIVE ACTIVE DEACTIVATED MERGED
	Mrg Hist Cancel Say	Add Delete	ext P <u>r</u> int <u>D</u> eactivate Dose

Displaying the Merged UID Associated with a Local ID

When two member profiles are merged, all the local IDs associated with the profiles are transferred to the merge result record. e*Index provides a simple way to determine the merged UID number that was previously associated with a local ID record. Display the active member profile on the View/Edit Person window, and then select the Local IDs tab. On the Local IDs tab, right-click the local ID whose original UID you want to view. The UID appears in a pop-up window.

	<mark>子</mark> View/Edit Pe	rson					
	UID 100-00		Status ACTIVE	Update Date 12	/14/2001 09:53:55	User ID UI	View
	Original U	ID D-000-0000	Pers	First Name ELIZABETH Gender FEMALE on Category PERSON		Middle Name JUNE SSN 555-44-4555	5
View the merged	De 🚽	Close	es Phor	nes Aliases Local II	Os Other IDs Comm	ents	
UID that was associated with a local ID record in the active UID record		CAPE BURR CEN RDW RDW SeeBeyond SHEFFIELD CENT SHEFFIELD CENT	TER	Loc 294-720-9472 948-72-947 974-09-287 2934729472 		Status ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE ACTIVE	
		<u>M</u> rg Hist	<u>E</u> dit <u>S</u> ave	Audit Irail Pot. Dyp	Pre <u>v</u> ious <u>N</u> ext	Print Deactivate	e <u>C</u> lose

User Audit Log

The User Audit Log function maintains a history of each instance the *ui_person* table is accessed from the e*Index GUI. Information maintained in the audit table includes the user ID of the user who accessed the table, the date and time the table was accessed, and the UIDs of the member profiles that were accessed. You can select an entry in the audit log to view detailed information about the member profiles accessed.

For complete information about the new User Audit Log function, see chapter 3 of the e*Index Global Identifier User's Guide.

	Search	Results					
,		Records Returned					_
/	User ID	Date/Time	UID1	UID2	Function	Detail	L-
dit /	UI	06/26/2001 19:12:01	• •	• •	AUDIT LOG	ACTIVATE	
rch_/	UI	06/26/2001 19:12:14	• •	• •	SEARCH	ACTIVATE	
	UI	06/26/2001 19:12:18	100-000-0001	• •	SEARCH	VIEW SEARCH RESULT	
	UI	06/26/2001 19:12:18	100-000-0004	· ·	SEARCH	VIEW SEARCH RESULT	
	UI	06/26/2001 19:12:18	100-000-0005	· ·	SEARCH	VIEW SEARCH RESULT	1
	UI	06/26/2001 19:12:18	100-000-0006	· ·	SEARCH	VIEW SEARCH RESULT	
	UI	06/26/2001 19:12:18	100-000-0007	· · ·	SEARCH	VIEW SEARCH RESULT	1
	UI	06/26/2001 19:12:18	100-000-0008	· ·	SEARCH	VIEW SEARCH RESULT	1
	UI	06/26/2001 19:12:18	100-000-0009	· ·	SEARCH	VIEW SEARCH RESULT	1
	UI	06/26/2001 19:12:18	100-000-0000	Í • •	SEARCH	VIEW SEARCH RESULT	1
	UI	06/26/2001 19:12:21	100-000-0001	· ·	VIEW/UPDATE	VIEW PERSON DETAIL	1
	UI	06/26/2001 19:12:27	100-000-0001	[· ·	VIEW/UPDATE	UPDATE A PERSON	1
	UI	06/26/2001 19:12:28	100-000-0001	· ·	VIEW/UPDATE	VIEW PERSON DETAIL	1
	UI	06/26/2001 19:12:32	100-000-0004	· · ·	VIEW/UPDATE	VIEW PERSON DETAIL	
	<u></u>	,	,	,	,	,	_

1-20

The new Lo

Region-specific Security

Region-specific security affects how member information is viewed in e*Index. This type of security is optional, and only affects e*Index if it is installed in the database.

With region-specific security, you can only view information about members who are associated with a system within the regions assigned to you. While this is straightforward on most e*Index windows, it becomes more complicated for the Merge, Unmerge, and Merge history functions. You can only merge member profiles that are associated with systems in your regions, and you can only unmerge a profile if both merged profiles are associated with systems in your regions.

For example, member A is associated with a system within the regions assigned to you but member B is associated with a system outside the regions assigned to you. If member A and member B are merged, you cannot unmerge their profiles. Only users who have access to both systems can unmerge the profiles. In addition, you are unable to view a full merge history for member A.

For more information about region specific security, see "Region Code Maintenance" and "Region-Specific Security" later in this chapter. You can also find more information in Chapter 3 of the *e*Index Security User's Guide* and of the *e*Index Administrator User's Guide*.

e*Index Administrator (Data Dictionary) Enhancements

Overview

Major updates and enhancements have been made to the e*Index Data Dictionary GUI, beginning with a name change to e*Index Administrator. Several new functions were added and changes were made to many existing functions to make e*Index more customizable. This section describes the changes to the e*Index Administrator GUI.

New Icon



e*Index Administrator has a new desktop icon. To access e*Index Administrator from the desktop, you need to click the new icon.

Terminology Changes

Several changes were made to the e*Index Administrator windows to accommodate field name changes and additions to e*Index.

- The following terminology changes were made:
 - Sex Maintenance is now Gender Maintenance.
 - Facility Maintenance is now System Maintenance.
 - What was previously **System Maintenance** is now **Source Maintenance**.
 - Country Maintenance is now Country Code Maintenance.
 - VIP Maintenance is now VIP Flag Maintenance.

New Control Keys

Five new system parameters, ALSRCHLMT, MIXEDCASE, PVSUMMARY, SHORTID, and UVAUDITLOG, were created for e*Index.

ALSRCHLMT

This parameter allows you to specify a limit on the number of user audit records that can be returned from a search against the audit log. This parameter can be set to any integer.

MIXEDCASE

This parameter allows you to specify whether data entered into the e*Index GUIs are uppercase only or whether the data can be entered in both uppercase and lowercase letters. When the value for this control key is set to **Y**, mixed-case entry is allowed. When the value is set to **N**, only

uppercase letters can be entered into the GUI. Only set this key to **Y** if you store data received from external systems in mixed cases.

Important! This functionality applies to all windows in all three e*Index applications, including the Login and Change Password windows. Make sure that if this control key is set to **N** that all users know to enter their passwords in uppercase characters when they log on.

PVSUMMARY

This parameter allows you to specify whether the Summary page of the View/Edit Person window on the e*Index GUI is visible or not. When this control key is set to **Y**, the Summary page is visible; when set to **N** the Summary page is hidden. For more information about this page, see "Summary Tab" on page 1-12.

SHORTID

This parameter allows you to specify whether the SSN column in the *ui_person* table can accept values shorter than nine digits, enabling the SSN field in the *ui_person* table to store identifiers other than a SSN. This column corresponds to different fields on the GUI depending on the country format used. By default, the corresponding fields include Social Security Number for the United States, NHS Number for England and Ireland, Medicare Number for Australia, and Numero de Securite Sociale for France. Set this control key to **Y** to allow varying ID lengths; set it to **N** to enforce the length specified by the field mask.

UVAUDITLOG

This parameter controls whether user audit logging is enabled for e*Index. When the value for this control key is set to **Y**, then a record is written to the *ui_audit* table each time the *ui_person* table is accessed, allowing you to monitor access to person information. When this control key is set to **N**, access to *ui_person* is not logged.

Important! If you set this control key to *Y*, be sure to archive the ui_audit table regularly as this table grows very quickly.

Modified Control Keys

Two control keys were modified between versions 4.1.1 and 4.5.2.

COUNTRY

The possible values for the control key COUNTRY were changed to accommodate the new address searching functionality. The COUNTRY control key determines which country format to use. The available options are AUS (Australia), FRA (France), GBR (Great Britain), IRE (Ireland), and USA (United States).

EXTNSVSRCH

In version 4.1.1, the EXTNSVSRCH control key controlled extensive

searching for both GUI and e*Way searches. With the new configurable query, this control key now only controls extensive searching for alphanumeric searches through the GUI. If you want to use extensive searching for phonetic and backend searching, you need to modify the configurable query. For more information about modifying the configurable query to perform extensive searching, see "Configuring Extensive Searching" in chapter 5 of the *e*Index Administrator User's Guide*.

Obsolete Control Keys

With the new display configuration options, several control keys are no longer required. The Display Configuration settings now determine whether the fields managed by these control keys are visible on the e*Index GUI windows (see "Display Configuration" later in this section). The following control keys have been removed from the database:

- DBTIME
- ETHNICAVL
- FATHERAVL
- MOTHERAVL
- SHOWMN
- SPOUSEAVL
- TITLEAVL

Maintenance Function Changes

Several changes have been made to the maintenance functions of e*Index Administrator. For detailed information about new procedures, windows, and functions, see the *e*Index Administrator User's Guide*.

New Functions

Several new maintenance functions were added to e*Index Administrator to accommodate the new data fields that were added to e*Index. Two functions that were previously only available for international installations, **Postcode Maintenance** and **District of Residence Maintenance**, are now available for all installations.

The new functions include:

Address Type Maintenance: Allows you to define the different address types used by the members in the database, such as home, work, mailing, and so on.

- **Citizenship Maintenance**: Allows you to add information about the nations of which your members are citizens.
- **Drivers License Issuer**: Allows you to define the various organizations that issue drivers licenses for the members in the database.
- **Nationality**: Allows you to define the various nationalities of the members in your organization.
- **Non-unique ID Types**: Allows you to define the types of identification codes used by your organization that are not unique for each user.
- Person Category: Allows you to define the different types of members who participate throughout your business. For example, your database may contain both patients and physicians; or it may contain both employees and customers.
- Phone Type: Allows you to add the different types of telephone numbers used by the members in your database, such as home, cellular, facsimile, and so on.
- Region Code: Allows you to define the regions to which the systems in your organization belong. Region codes are only used for region-specific security purposes.
- **State Code**: Allows you to define abbreviations for the different states in which members reside.

Obsolete Functions

The Postcode Maintenance function was removed, and you can now use the Zip Code Maintenance function to create and modify information about the postcodes you use. To change the field names on the Zip Code Maintenance window, use the Display Configuration function to modify the field labels for the columns in the *ui_zip* table.

Common Maintenance Functions

In previous versions of e*Index Administrator, all of the maintenance functions were contained under the **Table** option on the Main Menu. In the current version, the maintenance functions that require only an identification code and a description are contained in the new **Common Table** function. All data elements added through these functions are stored in one database table, *stc_common_detail*. The Common Table functions include:

- Address Type
- Citizenship
- Country Code (previously Country)

- Department
- District of Residence (DOR)
- Drivers License Issuer
- Ethnic
- Event
- Event Notification (for more information, see "Event Notification Maintenance" later in this section)
- Gender (previously Sex)
- Language
- Marital Status
- Nationality
- Person Category
- Phone Type
- Race
- Region Code (for more information, see "Region Code Maintenance" later in this section)
- Religion
- Source (previously System)
- State Code
- Suffix
- Title
- Veteran Status
- VIP Flag (previously VIP)

Table Maintenance Functions

Many of the maintenance functions were moved from the **Table** function on the primary toolbar to the **Common Maintenance** function. The functions that are still accessed through the **Table** function include:

- Application Messages
- Non-Unique ID Type
- Predefined Message
- System
- Zip Code

Non-unique ID Definition Maintenance

Non-unique ID Definition Maintenance is a new maintenance function added to the **Table** option on the Main Menu. This function is used to add nonunique ID types to the database, and to define the length and format of the

identifiers associated with each ID type. For more information about this window, see chapters 3 and 4 of the *e**Index Administrator User's Guide.

	Non Unique ID Definition Maintenance								
	⊢Maste	r							
	Туре	Name	Mask	Length		Fo			
	STN	STANDARD ACCOUNT	No	8‡	###-#####				
	GOLD	GOLD ACCOUNT	No	6‡	###-###				
Non-unique ID Definition	SNR	SENIOR ACCOUNT	No	7‡	##-##-###				
Maintenance									
allows you to									
define non-unique						•			
ID types									
ie types				Δ	dd <u>N</u> ew	<u>D</u> elete			
	_								
		Type: SNR							
		Name: SENIOR ACCO	JNT		_				
		Mask: No 💌							
		Length: 7							
		Format: ##-##-###			_				
		<u> </u>							
		Variable Length: 🔲							
				Sa <u>v</u> e	Cancel	<u>C</u> lose			

Configurable Candidate Selection (CSS)

When you perform a phonetic search from the GUI, e*Index uses specific information to form a SQL statement to query the database. e*Index uses similar information to form SQL statements when evaluating possible matches to new profiles being entered through the GUI or the backend APIs. The **Configuration Query** function provides the ability for you to modify the default criteria requirements and conditions so phonetic searches and matching queries are performed using the search criteria and conditions that you define.

Note: The default configurable queries are not enabled for extensive searching. If you want to enable extensive searching for phonetic and backend searches, you need to modify the configurable queries. For information about how to modify the queries for this purpose, see "Configuring Extensive Searching" in chapter 5 of the e*Index Administrator User's Guide.

	Configurable Query
Use the Configurable Query window to customize the search criteria for phonetic and potential duplicate queries	Type: Person Query - Default Search Select Column Available Columns Add Selected Columns Matching Insert Insert <td< td=""></td<>
	(fname_phonetic_code = <fname_phonetic_code> and dob = <dob> and sex = <sex> and status = 'A')</sex></dob></fname_phonetic_code>

By default, the queries for both phonetic searches and potential duplicate evaluation include the following criteria combinations.

- First name, date of birth, and gender, or
- Last name and first name, or
- Last name and mother's maiden name, or
- Social security number

e*Index forms a query to the database based on the phonetic code for each name given in the search criteria.

Important! You must have a strong knowledge of the SQL Query language before using the *Configuration Query* function to make any modifications to the configurable queries. You should also be familiar with the e*Index database structure (for more information, see the e*Index Global Identifier Technical Reference).

Display Configuration

e*Index Data Dictionary now provides the ability to customize the fields that appear on the GUI windows. To customize fields, you need to use the new **Display Configuration** table maintenance function, which is accessed

window allows

through the Maintenance option on the Main Menu. You can specify a name for each field and determine which fields will be visible and which will be hidden. This flexibility allows you to determine the type of information you will display and store, and how much information you will display. For example, by default a field named Address 2 appears on the e*Index windows. Using Display Configuration, you can change the field to appear as Apt.# instead. Or, you could elect not to display the field at all. For more information about configuring field labels, see "Configuring e*Index" in chapter 4 of the *e***Index Administrator User's Guide*.

	1	Display Configuration	1							
The new Display Configuration vindow allows you to customize the		Configuration Master Table Name [ui_address ui_address ui_address	country_code address3		Address3		Address3		Visible	Read •
field names on the e*Index GUI		ui_address ui_address Detail	state_code address_id Table Name		State Address ID		State Address ID			
		_	Default Label Label				_			
	-	·			<u> </u>	<u>S</u> ave	Ca <u>n</u> cel	<u>A</u> dd New	<u>D</u> elete	<u>C</u> lose

Country Specific Options

The new Country Specific Options function provides a great deal of flexibility in how the e*Index windows are presented, and allows you to specify the format of certain fields and to configure certain aspects of the address search rule set. Using Country Specific Options, you can perform the following tasks:

- Modify the search type labels on the e*Index Search window.
- Modify the tab heading labels on the tabbed pages of the e*Index data windows.
- Define the format of the SSN, zip code, and telephone number fields.
- Specify which address and telephone type to display on the Summary page (if the Summary page is enabled).
- Specify which address rule set to use and define certain address parsing attributes for that rule set.

For more information about Country Specific Options, see Chapter 5 of the e*Index Administrator User's Guide.

	Country Specif	ic Option						
Specify country- specific attributes on the Country Specific Option window	Country Specif Options Country Code USA USA USA USA USA USA	Control T TAB LABEL TAB LABEL TAB LABEL TAB LABEL		Option demographic miscellaneous address phone		Misc Addr	Value Demographics Miscellaneous Addresses Phones	
		Country Code Control Type		1			-	
			demograph				-	
		· · · · · · · · · · · · · · · · · · ·	Demograpi				-	
		value	perentograpi	lius			_	
		<u> </u>	Sa <u>v</u> e	Cancel	Add <u>N</u> ew	<u>D</u> elete	<u>C</u> lose	

To Perform Country Specific Customizations

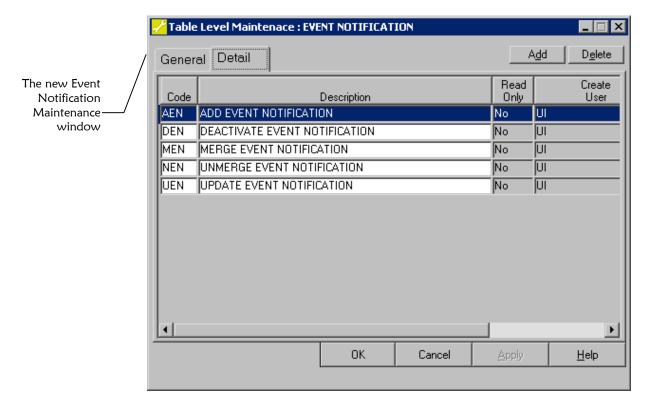
When you customize e*Index for a specific country configuration, there are several steps to follow to ensure that you have completely localized your implementation. Following is a summary of tasks to complete, along with the locations of specific instructions for completing each task.

- 1 In Control Key Maintenance, specify the country for which you are localizing e*Index in the COUNTRY control key. For information about the COUNTRY control key, see "COUNTRY" under "What Control Keys are Available" in chapter 5 of the *e*Index Administrator User's Guide*. For information about modifying control key values, see "Specifying Control Key Values" in the same chapter.
- 2 In Rule Set Maintenance, make sure that the address rule set for the country you specified for the COUNTRY control key is "**In Use**" and that no other address rule set is "**In Use**". For information about modifying rule sets, see "Modifying Rule Set Information" in Chapter 6 of the *e*Index Global Identifier User's Guide*.
- 3 Customize country-specific attributes, including address parsing rules; tabbed page titles; search type titles; field formats for the national identifier, telephone numbers, and postal codes; and the address and telephone types to display on the Summary tab. This is an optional step. For more information, see "Configuring Country-Specific Attributes" in chapter 5 of the *e*Index Administrator User's Guide*.
- 4 Specify the fields you want display on the e*Index GUI, which fields are required, and the label for each field. This step is also optional. For more information about field customization, see "Configuring Display Options" in chapter 5 of the *e*Index Administrator User's Guide*.

Event Notification Maintenance

Event Notification Maintenance is a new Common Table Maintenance function designed to enable the new e-mail notification feature (for more information, see "Event Notification" in the following section, "e*Index Security GUI Enhancements"). This maintenance function allows you to create, delete, and modify the types of transactions of which e*Index users can be notified.

The figure below illustrates the new Event Notification Maintenance window. For more information about this new function, see Chapter 3 of the *e*Index Administrator User's Guide*.



Region Code Maintenance

Region Code Maintenance is a new Common Table Maintenance function designed to enable the new region-specific security feature. If this feature is installed in the e*Index database, user access can be restricted by the regions to which users are assigned. To use this feature, you must create regions using the Common Table Maintenance function in e*Index Administrator, and then associate each system from which member data originates with one of the regions you defined. These steps require using the Region Code Maintenance function and the System Maintenance function. Both are described in chapters 3 and 4 of the *e*Index Administrator User's Guide*.

The figure below illustrates the new Region Code Maintenance window. For more information about this new function, see Chapter 3 of the *e*Index Administrator User's Guide*.

	🗾 Table Level Maintenace : REGION CODE					
/	Gener	al Detail			A	A <u>dd</u> D <u>e</u> lete
The new Region	Code		Description		Read Only	Create User
Maintenance/ window	E	EAST			No	UI
Window	NC	NORTH CENTRAL			No	UI
	NE	NORTHEAST			No	UI
	NW	NORTHWEST			No	UI
	SC	SOUTH CENTRAL			No	UI
	SE	SOUTHEAST			No	UI
	SW	SOUTHWEST			No	UI
	W	WEST			No	UI
	•					F
			OK	Cancel	Apply	<u>H</u> elp

Rule Set Maintenance

e*Index Administrator provides the ability to customize the rule sets used by the matching algorithm to determine the probability of a match between two records. With the new Rule Set Maintenance and Control File Content functions, you can add, delete, and modify rule sets, and you can add, delete, and modify rule set files. Since rule set information is stored in the database, the new functions also provide the ability to load modified rule set data into the database.

These rule sets are very complicated, and should only be modified by someone who is trained in Vality and understands how changes to the rule sets will affect data processing. Once your system is in production, modifying the rule sets may result in data inconsistencies.

The figure on the following page illustrates the new Rule Set Maintenance window. For more information about this new function, see Chapter 6 of the *e*Index Administrator User's Guide*. Rule Set Maintenance was previously provided in a separate application named the e*Index Configuration Tool.

The new rule set	
maintenance function	
allows you to work	
with e*Index rule sets	

Deet Die Maar		In			
Root File Nam		Use	Create Date	Created By	Update Date
	<u> </u>				
	<u> </u>				
GBADDR			11/01/2000 00:00:00	UI	
					Þ
UI		Ro	ot File Name: UI		
ReadOnly: 🗹 In Use: 🗹					
11/1/2000 00:00:00		Cr	eate User ID: UI		
		Up	date User ID:		
	▼ 11/1/2000 00:00:00	USADDR	USADDR AUADDR GBADDR GBADDR UI Ro	USADDR I 11/01/2000 00:00:00 AUADDR I 11/01/2000 00:00:00 GBADDR I 11/01/2000 00:00:00 UI Root File Name: UI I In Use: I 11/1/2000 00:00:00	USADDR I V 11/01/2000 00:00:00 UI AUADDR I 11/01/2000 00:00:00 UI GBADDR I 11/01/2000 00:00:00 UI UI VI Root File Name: UI VI In Use: V 11/1/2000 00:00:00 Create User ID: UI

System Maintenance

The System Maintenance window was modified to accommodate the new region-specific security feature. The layout of the fields is slightly different, but the primary difference is the addition of a Region field. Use this field to specify the region in which each system is located. e*Index users can only access information originating from the regions to which they are assigned (if region-specific security is installed).

The figure on the following page illustrates the modified System Maintenance window. For more information about the System Maintenance window, see Chapter 3 of the *e*Index Administrator User's Guide*.

RDW	Description CAPE BURR CENTER RDW SEEBEYOND	Status ACTIVE ACTIVE ACTIVE	Region Code EAST EAST	Date Time 06/26/2001 15:09:47 06/26/2001 22:48:18 06/26/2001 15:09:00	▲ ▼	
Code CD RDW SBYN	CAPE BURR CENTER RDW SEEBEYOND	ACTIVE ACTIVE ACTIVE	EAST	06/26/2001 15:09:47 06/26/2001 22:48:18		
CD RDW SBYN	CAPE BURR CENTER RDW SEEBEYOND	ACTIVE ACTIVE ACTIVE	EAST	06/26/2001 15:09:47 06/26/2001 22:48:18		
RDW SBYN	RDW SEEBEYOND	ACTIVE ACTIVE	EAST	06/26/2001 15:09:47 06/26/2001 22:48:18		
SBYN	SEEBEYOND	ACTIVE	EAST			
				06/26/2001 15:09:00		
Detail						
					_	
		DRIVE			_	
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		County CAPE B	URR			
				-		
_		Less ID Length	No 🗾 S		-	
		-				
Local ID	Format ###-####-##		Last Mo	odified 06/26/2001 22:48	8:18	
	Sa <u>v</u> e Cance	Add <u>N</u> ew	<u>D</u> elete	<u>C</u> lose		
	Ad Local ID Next Lo Region	Address1 Address2 City Zip Country Local ID Length Next Local ID Local ID Format Address2 SUITE 504 SHEFFIELD 09876 UNITED STATES 9 Allow EAST ###-#################################	Address1 12312 SHORELINE DRIVE Address2 SUITE 504 City Zip 09876 County UNITED STATES Local ID Length Next Local ID Region Code Local ID Format H####################################	Address2 City Zip Country Local ID Length Next Local ID Local ID Format Country Local ID Format Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Country Countr	Address1 Address2 City SUITE 504 SUITE 504 SUITE 504 SHEFFIELD State CONNECTICUT O9876 County CAPE BURR County UNITED STATES Local ID Length No Status ACTIVE System Mask No EAST Local ID Mask No Local ID Format ####-################################	

e*Index Security GUI Enhancements

Overview

From version 4.1.1 to version 4.5.2, the e*Index Security GUI was completely updated and redesigned. This section provides a summary of the updates made to the e*Index Security GUI. For complete information about the new procedures for performing security tasks, see the *e*Index Security User's Guide*.

New Icon



e*Index Security has a new desktop icon. To access e*Index Security from the desktop, you need to click the padlock icon.

Terminology Changes

The names of the access permissions you can grant to users and user groups have been changed to more accurately reflect their purpose. New functions and actions have been added to e*Index Security to enable access restriction to the new functions and windows of e*Index Global Identifier and e*Index Administrator. In addition, in e*Index 4.1.1 permissions to perform security functions, such as adding user profiles and user groups and assigned access permissions, were automatically granted to users who were either Super Users or Group Supervisors. In e*Index 4.5.2, these access permissions are manually assigned so additional access permissions were created for this purpose. The table below highlights the differences between the 4.1.1 access permissions and the 4.5.2 access permissions. Any permissions not on this list are identical between the two versions.

Table 1-1: Security Access Permission Comparison Between Versions

This 4.1.1 function/permission		becomes this 4.5.2 function/permission		
Functional Group	Access Permission	Functional Group	Access Permission	
None		Audit Log	View Audit Log	
None		Address Type	Add Address Type	
			Delete Address Type	
			Edit Address Type	
			View Address Type	

This 4.1.1 function/permission		becomes this 4.5.2 function/permission			
Functional Group	Access Permission	Functional Group	Access Permission		
Canned Message Table	Add Canned Message	Pre-defined Messages	Add Pre-defined Messages		
	Delete Canned Message		Delete Pre-defined Messages		
	Edit Canned Message		Edit Pre-defined Messages		
	View Canned Message		View Pre-defined Messages		
None		Citizenship	Add Citizenship		
			Delete Citizenship		
			Edit Citizenship		
			View Citizenship		
Comment	None	Comments	Add Comments		
	Delete Comment		Delete Comments		
	Print Comment		Print Comments		
None		Configurable Query	Add Configurable Query		
			Delete Configurable Query		
			Edit Configurable		
			View Configurable Query		
None		Country Specific Option	Edit Country Specific Option		
			View Country Specific Option		
None		Display Configuration	Add Display Configuration		
			Delete Display Configuration		
			Edit Display Configuration		
			View Display Configuration		
None		District of Residence	Add District of Residence		
			Delete District of Residence		

This 4.1.1 function/permission		becomes this 4.5.2 function/permission			
Functional Group	Access Permission	Functional Group	Access Permission		
			Edit District of Residence		
			View District of Residence		
None		Driver License Issuer	Add Driver License Issuer		
			Delete Driver License Issuer		
			Edit Driver License Issuer		
			View Driver License Issuer		
None		Event Notification	Add Event Notification		
			Delete Event Notification		
			Edit Event Notification		
			View Event Notification		
Facility Table	Add Facility	System Table	Add System		
	Delete Facility		Delete System		
	Edit Facility		Edit System		
View Facility			View System		
None (granted by assi	gning Super User status)	Group Access	Add Group Access		
			Edit Group Access		
			View Group Access		
None (granted by assi	gning Super User status)	Group Security	Add Group		
			Edit Group		
			View Group		
None		Nationality	Add Nationality		
			Delete Nationality		
			Edit Nationality		
			View Nationality		
None		Non-unique Identifier	Add Non-unique ID		
			Delete Non-unique ID		
			Edit Non-unique ID		
			View Non-unique ID		

This 4.1.1 function/permission		becomes this 4.5.2 function/permission			
Functional Group	Access Permission	Functional Group	Access Permission		
Patient Detail	Print Patient Detail	Person Detail	Print Person Detail		
Patient Table	Add Patient	Person Table	Add Person		
	Deactivate Patient		Deactivate Person		
	Edit Patient		Edit Person		
None		Person Category	Add Person Category		
			Delete Person Category		
			Edit Person Category		
			View Person Category		
Person/Patient Function	Activate Person/Patient	Person Function			
	Comment Person/Patient Search		Comment Person Search		
	Print Person/Patient Search		Print Person Search		
	Unmask VIP Data		Unmask VIP Data		
	View Person/Patient Search		View Person Search		
None		Phone Type	Add Phone Type		
			Delete Phone Type		
			Edit Phone Type		
			View Phone Type		
None		Region Table	Add Region		
			Delete Region		
			Edit Region		
			View Region		
None		Rule Set	Edit Rule Set		
			View Rule Set		
		Security Control Table	Edit Security Control Key		
			View Security Control Key		
Sex Table	Add Sex	Gender	Add Gender		
	Delete Sex		Delete Gender		
	Edit Sex		Edit Gender		
	View Sex		View Gender		
None		State Code	Add State		

This 4.1.1 function/permission		becomes this 4.5.2 function/permission		
Functional Group	Access Permission	Functional Group	Access Permission	
			Delete State	
			Edit State	
			View State	
System Table	Add System	Source Table	Add Source	
	Delete System		Delete Source	
	Edit System		Edit Source	
	View System		View Source	
None (granted by assigning Super User or Group Supervisor status)		User Access	Add User Access	
			Edit User Access	
			View User Access	
User Defined Messages	Add Messages	System Messages	Add System Messages	
	Delete Messages		Delete System Messages	
	Edit Messages		Edit System Messages	
	View Messages		View System Messages	
None (granted by assigni Supervisor status)	ng Super User or Group	User Security	Add User	
			Edit User	
			View User	
None (granted by assigni Supervisor status)	ng Super User or Group	User-Group Security	Add User-Group	
			Edit User-Group	
			View User-Group	

About the New Design

All of the windows of e*Index Security have a new appearance except Control Key Maintenance. The new design provides more simple drag-anddrop procedures for performing common tasks, such as adding user profiles to user groups and granting access permissions to user groups and user profiles. The new design also provides greater flexibility, allowing you to assign a user profile to more than one user group.

New Functionality

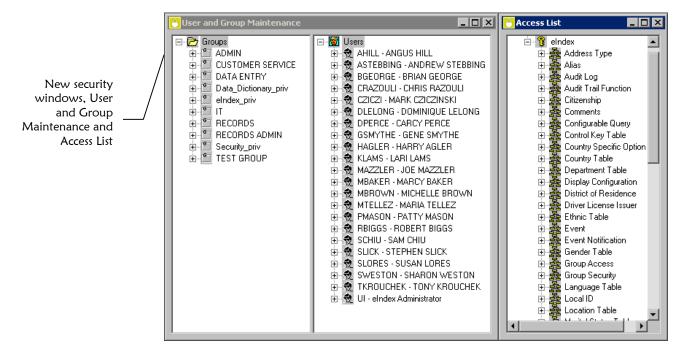
The new e*Index Security allows you to add a user profile to as many user groups as is necessary to ensure they are granted all the necessary access

permissions. Expiring user profiles from user groups is a one-step procedure, performed by highlighting the appropriate user profile and clicking an icon tool on the application toolbar. Expiring access permissions from user groups and user profiles is a similar procedure, as is reinstating user profiles to user groups and reinstating access permissions to user profiles and user groups.

This release also includes the ability to assign region-specific security (see "Region-Specific Security" later in this section) and to notify specific users via e-mail when certain events occur in the e*Index GUI (see "Event Notification" later in this section).

New Maintenance Windows

The User Maintenance window and the User Group Maintenance window are replaced by one window, the User and Group Maintenance window. With this design, all user profiles and user groups appear on the same window, and the Access List, which contains all available access permissions, appears next to the User and Group Maintenance list. This design allows you to perform security tasks using drag-and-drop functionality, and replaces the Security Wizard and Available Options windows from version 4.1.1.



New User and Group Properties Windows

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The windows that display information about the user profiles and user groups do not perform the same functions as in previous releases. Most of the old functionality, such as assigning user profiles to user groups or searching for user profiles, has been moved to the User and Group Maintenance window. You can use the new properties windows to add user profiles and user groups, and to modify information about those profiles and groups. You can also specify the dates between which the user group or user profile is active. The figure below displays the User Properties window.

	🔒 User I	Properties				×
	General	Region				
User profile and user group information is now displayed on properties windows		User ID: GSMYTHE Password: ***** User Name(First, GENE Email Address: GSMYTHE@HEI Effective Date: 12/04/2001 Create User: UI Description:	MI and Last	Confirm: SMYTHE Jser Type: Administrator Expired Date: 10/00/0000 Create Date: 2/04/2001		
		MRN ADMINIST USERS AND US	ER ACCESS	N ADD AND MOD 3. vord at Next Logor		
		OK	Cancel	Apply	Help	

Region-Specific Security

Region-specific security is a new capability that allows user access to be assigned by region. For example, if you receive member information from system A and system B in the Western region, and from system C in the Central region, then a user profile who is assigned only to the Western region can view member information in the e*Index GUI for members of system A and system B, but not for system C. This function can only be used if the following steps are taken:

Region-specific security is installed in the e*Index database.

Note: Installing this option is described in the e*Index Global Identifier Installation Guide.

- Regions are defined in e*Index Administrator.
- The systems from which the e*Index data originates are defined in e*Index Administrator and are associated with the appropriate regions.

The user profiles in e*Index Security are assigned to the appropriate regions.

You can assign user profiles to regions on the Regions page of the New User or User Properties window.

	🔒 New U	ser			×
,	General	Region			
Region tab on the User Properties window	Av. WESTER		All > All > All <	Selected EASTERN NORTH CENT SOUTH CENT	RAL
		OK	Cancel	Apply	<u>H</u> elp

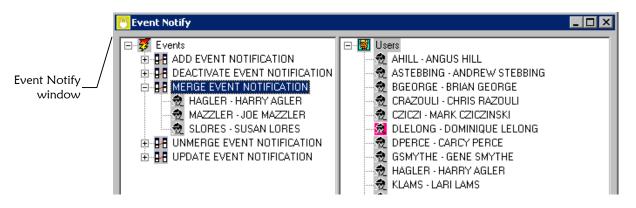
Event Notification

Event Notification is another new function for e*Index Security. This function allows you to specify that certain users receive e-mail notifications for the certain events whenever those events occur in the e*Index GUI. For example, you can specify that a set of users receive e-mail notifications when a merge is performed through the e*Index GUI. The events of which you can notify users include:

- Member Profile Adds
- Member Profile Updates
- Member Profile Deactivations
- Member Profile Merges
- Member Profile Unmerges

Event Notification Window

Use the Event Notify window to specify the user profiles to be notified of e*Index events. Event notification is assigned using a simple drag-and-drop procedure. A current and accurate e-mail address must be associated with each user profile to which event notification is assigned.



Implementing Event Notification

In order for event notification to be functional, you need to configure an email e*Way to deliver the notifications. You must also modify the polling e*Way to publish to the e-mail e*Way. The e-mail addresses for each Event placed in the outgoing queue (the *ui_msg_detail* table) are appended to the end of each Event in a new segment named **ZEN**.

Obsolete Functions

The ability to create, delete, and modify the modules and sub-modules (also known as functions and actions) that define access permissions was removed since the ability to perform these functions is obsolete.

e*Index Database Enhancements

Overview

This section describes the differences in the e*Index database tables, columns, and distribution between releases 4.1.1 and 4.5.2. For more detailed information about the e*Index database and to view a physical data model of the database, see chapter 2 of the *e*Index Global Identifier Technical Reference*.

New Platform Support

For this release, e*Index supports not only Oracle databases, as in previous versions, but also supports Sybase and SQL Server database platforms. However, the migration from version 4.1.1 to 4.5.2 can only be performed on an Oracle database.

New Database Tables

There are several differences in database tables between versions 4.1.1 and 4.5.2 to accommodate new functionality and expanded data elements. For more detailed descriptions of each table, see "Learning About the e*Index Database" in chapter 2 of the *e*Index Global Identifier Technical Reference*.

Person Data Tables

The following tables have been added to the e*Index database to accommodate storing additional information for each person in the database.

ui_address

The *ui_address* table stores information about the addresses associated with each member.

ui_address_history

This table stores a history of each member's addresses, and is used to form an audit trail.

ui_alias_history

The *ui_alias_history* table stores a history of a member's alias names. This information is used to form the audit trail for each member.

ui_aux_id

This tables stores the non-unique IDs assigned to each member, along with the ID type name.

ui_aux_id_history

This table stores a history of each member's non-unique ID and ID types. This information is used to form the audit trail for each member.

ui_local_id_history

The *ui_local_id_history* table stores a history of changes made to each member's local ID and system pairs. This information is used to form the audit trail for each member.

ui_person_history

The *ui_person_history* table replaces the table *ui_history*. This table still stores the history information that is used to form an audit trail.

ui_phone

The *ui_phone* table stores information about each member's telephone numbers.

ui_phone_history

This table stores a history of telephone numbers for each member. This information is used to form an audit trail.

Case-insensitive Search Tables

Two new tables were added to the e*Index database to support caseinsensitive searching from the e*Index GUI. The following tables were added for this release.

ui_person_x_name

This table stores the name information from each record in *ui_person* in uppercase only, and enables case-insensitive name searching from the e*Index GUI.

ui_alias_x_name

This table stores each alias name in *ui_alias* in uppercase only, and enables case-insensitive *extensive* searching (that is, when the control key EXTNSVSRCH is enabled).

Security Tables

Several new database tables were added for this release to accommodate the new security requirements. The following tables were added for this purpose.

stc_acc_def

This table stores information about the access permissions that appear in the access list on the Access List window of e*Index Security.

stc_group

This table stores information about the user groups defined in e*Index Security. This table does not store information about the user profiles or access permissions assigned to each user group.

stc_group_acc

The *stc_group_acc* table stores information about the access permissions granted to each user group.

stc_module

The *stc_module* table stores information about the primary functions that appear in the access list on the Access List window of e*Index Security.

stc_user

This table stores information about the user profiles defined in e*Index Security. This table does not store information about the access permissions assigned to each user profile, or the user groups and regions to which each profile is assigned.

stc_user_acc

The *stc_user_acc* table stores information about the access permissions granted to each user profile.

stc_user_region

This table stores information about the regions to which each user profile is assigned. This table is only used if region-specific security is installed (see your *e*Index Security User's Guide* for more information).

stc_user_group

This table stores information about the user groups to which each user profile is assigned.

ui_notify_user

This table stores information about the event notifications to which each user profile is assigned. You can assign event notifications to user profiles on the Event Notify window in e*Index Security. When you remove notification for an event from a user profile, the corresponding row in this table is removed.

Country-specific Options Tables

Three new database tables were added to accommodate the new countryspecific option requirements. The following tables were added for this purpose.

ui_misc_option

This table provides the ability to make the GUI country-specific by reformatting certain fields depending on which country you select. This table also contains label information for the tabs that appear on the e*Index GUI windows.

ui_misc_opt_control

The *ui_misc_opt_control* table stores information about the components of e*Index that are affected by the data stored in *ui_misc_option*.

ui_misc_opt_country

The *ui_misc_opt_country* table stores information about the country codes used in *ui_misc_option*, describing which country corresponds with which code.

Code Table Data Tables

The following tables have been added to the e*Index database to support the functions of the e*Index Administrator. Note that most of the code table data is now stored in *stc_common_header* and *stc_common_detail* instead of individual tables such as *ui_religion*, *ui_race*, *ui_language*, and so on.

stc_appl

This table stores a description and code for the e*Index application. This table is linked to the *stc_common_header* and *stc_module* tables and indicates the application with which each item in *stc_common_header* and *stc_module* is associated. Currently the only item in this table is e*Index.

stc_common_detail

This table holds information about the data elements you add to the Common Table maintenance functions of e*Index, including races, languages, driver's license issuers, and so on. The common header ID associated with each data element in this table specifies the table maintenance function with which the data element is associated.

stc_common_header

This is the header table for each Common Table maintenance function. It stores a list of the types of data elements you can add using the Common Table maintenance functions of e*Index Administrator, such as Race, Language, Citizenship, and so on.

ui_aux_id_def

This table stores the various non-unique ID types that you define in e*Index Administrator.

Configurable Query Tables

The following tables were added to the database to accommodate the configurable query feature of e*Index Administrator.

ui_cand_from_table

This table stores the table(s) in the 'from' column of the SQL statements generated by the configurable queries. For example, if you created this SQL statement

```
select first_name, last_name from ui_person where u_id = '100'
```

this table would store the 'ui_person' portion of the statement.

ui_cand_select_column

This table stores the columns in the 'select' portion of the SQL statements generated by the configurable queries. For example, in the above SQL statement, this table would store the 'first_name, last_name' portion of the statement.

ui_cand_where_column

This table stores the columns called in the 'where' portion of the SQL statements generated by the configurable queries. For example, in the above SQL statement, this table would store the 'u_id' portion of the statement.

ui_cand_sql

This table stores the descriptions and identification codes for the two types of configurable queries.

ui_cand_sql_column

This table stores information about the available and selected columns for the configurable queries.

ui_cand_sql_table

This table stores information about the available and selected tables in the configurable queries.

ui_cand_where_clause

This table stores information about the WHERE clauses for the configurable queries, along with the criteria list description of each clause.

Outbound Event Tables

The following tables replace the *ui_out_queue* and *ui_key_table* to store Events to be picked up by the polling e*Way.

ui_msg_detail

This table, along with the *ui_msg_header* table, has replaced the *ui_outqueue* table. It is used to store messages being sent from the e*Index database to external systems.

ui_msg_header

The *ui_msg_header* table stores header information for the *ui_msg_detail* table.

Miscellaneous Tables

The following tables were added to the e*Index database. *ui_seq_no* centralizes sequence number storage and *ui_transaction* centralizes Event identification information.

ui_object_type

This table is reserved for future functionality and is not used in this release.

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ui_seq_no

This table defines the sequential codes that are used in other tables in the e*Index database.

ui_transaction

This table maintains a sequential transaction number for each event that is processed through e*Index. This table links all of the database tables that are used to store member information.

Display Configuration Tables

The following tables were added to support the configurability of fields displayed on the e*Index GUIs.

ui_table

This table stores information about the tables that are displayed on the Display Configuration window in e*Index Data Dictionary. These tables contain the columns whose corresponding field labels can be modified on the e*Index GUI.

ui_table_column

The *ui_table_column* is accessed by the Display Configuration function of e*Index Data Dictionary. This table stores information about how the field labels are configured.

Modified Database Tables

For this release of e*Index, the following changes were made to the e*Index database to increase the flexibility of the application. For detailed information about each table listed, refer to the physical data model in the *e*Index Global Identifier Technical Reference*. Many tables were modified to reference the table *ui_transaction* through the addition of the **transaction_no** column. The **county** field was also standardized to 20 characters in all tables containing the field.

ui_alias

These columns were added to the *ui_alias* table: **ui_alias_id**, **mname_phonetic_code**, and **transaction_no number(10)**. **middle_initial** was changed to **middle_name**. These columns were removed: **title**, **suffix**, **ssn**, **create_date**, **create_time**, and **ui_org**.

ui_assumed_match

This table was reduced to only five columns: **assumed_match_id**, **u_id**, **weight**, **prev_transaction_no**, and **transaction_no**.

ui_audit

This table was modified by the addition of the **ui_audit_id** column.

ui_comment

This table was modified by the addition of the **ui_comment_id** column.

ui_duplic

This table was reduced to only seven columns and the description column was broken out into two columns: **weight** and **description**. The

new *ui_duplic* table contains these columns: **ui_duplic_id**, **duplic_id**, **existing_id**, **weight**, **description**, **dummy_date**, **resolved**, and **transaction_no**.

ui_facility

The length of many of the columns in this table was modified. A new column, region_code, was added to accommodate region-specific security. Refer to the physical data model in the *e*Index Global Identifier Technical Reference* for more information.

ui_local_id

This table was restructured to include only the following columns: **ul_id**, **u_id**, **facility**, **local_id**, **status**, and **transaction_no**.

ui_login and **ui_login_current**

The length of many of the columns in these tables was modified. Refer to the physical data model in the *e***Index Global Identifier Technical Reference* for more information.

ui_message

The length and type of the **description** column was changed from **varchar2(500)** to **long**.

ui_mrg_trans

This table was restructured to include only the following columns: ui_mrg_trans_id, u_id, u_id_from, trans_no, trans_no_from, unmrg_trans_no, and unmrg_trans_no_from.

ui_person and ui_person_history (previously ui_history) The middle_initial column was changed to middle_name, spouse was changed to spouse_name, mother was changed to mother_name, and father was changed to father _name. All address and telephone fields, as well as merge fields, were removed from these tables. The following columns were added to these tables: person_cat, dob_time, addr3, addr4, driver_license, drivers_license_st, dod, death_certificate, nationality, pension_no, pension_exp_date, repatriation_no, district_of_residence, lga_code, military_branch, military_status, string1 through string10, and date1 through date5.

Database Views

For this release, the following views were either added or updated.

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ui_alias_view

This is a new view to support case-insensitive searching for extensive searches.

ui_person_view

This view replaces the old ui_person_view, which was modified to support case-insensitive searching.

ui_person_search_view

This is a new view created to support case-insensitive searching from the backend.

Obsolete Database Tables

With the redesign of e*Index Security and e*Index Administrator, several database tables were removed and new tables were created in their place. The following tables were removed:

- mod_acc
- mod_def
- mod_loc
- ui_user_dept
- ui_typ_table
- user_tbl
- ui_country (now stored in stc_common_detail)
- ui_dequeue_lock
- **ui_ethnic** (now stored in *stc_common_detail*)
- ui_event (now stored in stc_common_detail)
- ui_history (replaced by ui_person_history)
- ui_key_table (replaced by ui_msg_header)
- **ui_language** (now stored in *stc_common_detail*)
- ui_location
- ui_merge_alias
- ui_merge_duplic
- ui_merge_local_id
- ui_mstatus (now stored in stc_common_detail)
- ui_next_id (now stored as the seq_no for the ui_person table_name in ui_seq_no)
- ui_out_queue (replaced by ui_msg_detail)
- ui_patmode
- ui_patorder
- ui_race (now stored in stc_common_detail)
- ui_resolved

- ui_rev_center
- **ui_sex** (now stored in *stc_common_detail*)
- **ui_state** (now stored in *stc_common_detail*)
- ui_status (now stored in stc_common_detail)
- ui_suffix (now stored in stc_common_detail)
- ui_system (now stored in stc_common_detail)
- ui_title (now stored in stc_common_detail)
- ui_user_clinic
- ui_veteran (now stored in stc_common_detail)
- ui_vip (now stored in stc_common_detail)

Database Indexes

Due to the structural changes to the e*Index database between versions 4.1.1 and 4.5.2, several changes were made to the indexes and several new indexes were added. To view information about the indexes for version 4.5.2, refer to the **create_ui_tables.sql** file located in **\server\UIinitial** in the installation path of the database installation files. The index commands begin with the line "**create index idx_ui_address1 on ui_address (u_id asc)**".

Routines

The number of routines used in the database has been greatly reduced. To see information about the routines included in the 4.5.2 release, refer to the files located in **\server\UIinitial\Routines** in the installation path of the database installation files.

Reporting Changes

Due to the large number of changes in the database structure, the reports were rewritten between versions 4.1.1 and 4.5.2. Most of the Production reports are the same, but the Conversion reports have been removed. In addition, the assumed match reports that included address information were removed. You will need to re-customize the reports based on the customizations you made for version 4.1.1. In addition, you will need to update any reports you created for e*Index. Note that standard reports are only installed for Oracle implementations.

e*Index Schema Enhancements

Overview

Several changes were made to the Monk APIs and to the e*Index Schema for e*Gate. These modifications give e*Index greater flexibility and extensibility, and provide the ability to highly customize how records are processed through the backend.

New Monk APIs

The current version of e*Index contains several new Monk APIs to provide you with greater flexibility in processing Events through the e*Index e*Ways. Several of these APIs are used to replace the previous Monk API **altaprocess-person**. For detailed information about the new APIs, including parameters, syntax, return values, and examples, refer to the *e*Index Global Identifier Technical Reference* for version 4.5.2.

This Monk API	performs this action
ui-address-search-close	Closes the address search cursor, and de- allocate the memory.
ui-address-search-next	Returns the next address record from the address search cursor, and increment the search cursor position. You must call ui-address- search-open before calling ui-address-search- next . The search cursor must not be at the end of its record set or an exception will be returned.
ui-address-search-open	Searches for existing address records based on an address list. If records are found, ui-address- search-open opens a cursor of weighted records returned from the search. This function returns the number of records in the result set.
ui-commit-transaction	Commit a transaction to the database and reset the transaction structure.
ui-deactivate-local-id	Deactivate an active local ID given the local ID number, the associated system, and a UID.
ui-delete-address	Deletes an existing address record from the database. A transaction must be started before calling ui-delete-address .
ui-delete-aux-id	Delete a non-unique ID given the ID type and the ID code. Before calling ui-delete-aux-id , you must call ui-start-transaction to designate which UID record is being modified.

This Monk API	performs this action
ui-delete-queue-msg	Remove a message from the outgoing queue once it has been successfully dequeued and sent.
ui-delete-unresolved- duplicates	Remove a record's existing potential duplicate entries from <i>ui_duplic</i> during a person update so potential duplicates can re-evaluated for that record.
ui-exists-aux-id	Searches for a specific non-unique ID type for a member given the member's UID, the ID type, and the identification code.
ui-get-assumed-match- enabled	Check if the ASSMTCH control is enabled in the e*Index Administrator. If ASSMTCH is enabled, all assumed matches made by the application are written to the <i>ui_assumed_match</i> table.
ui-get-all-local-id	Searches for local IDs in a specific system based on a member's UID. The status of the local IDs is ignored.
ui-get-aux-id	Retrieve a non-unique ID given the type of ID and the member's UID.
ui-get-db-date-time	Retrieve the date and time on the database server in the following format: YYYY/MM/DD hh:mm:ss.
ui-get-demographic- changed	Check to see if a demographic record was changed as a result of the previous actions against the database.
ui-get-dupchk-enabled	Check to see if the DUPCHK control key is enabled in the Data Dictionary. If DUPCHK is enabled, potential duplicates for a specific record are re-evaluated after that record is updated.
ui-get-id-system	Replaces ui-get-id-facility.
ui-get-local-id	Retrieve the member's local ID in a specific system given the system code and UID. This API has since been replaced by ui-search-local-id , but is still available for use.
ui-get-transaction-date- time	Retrieve the time that the transaction that is currently in progress began.
ui-get-uid	Find a person's UID using that person's system and local ID as search criteria.
ui-insert-address	Inserts a new address into the database. A transaction must be started before calling ui-insert-address .
ui-insert-alias	Insert alias information into the <i>ui_alias</i> table based on that person's UID.

This Monk API	performs this action
ui-insert-assumed-match	Insert an assumed match record by assuming the first record in the search cursor (the one with the highest matching weight) is the assumed match of the incoming record. You can only call this function after ui-search-open .
ui-insert-aux-id	Insert a non-unique ID and specific ID type. Before calling ui-delete-aux-id , you must call ui- start-transaction to designate which UID record is being modified.
ui-insert-person	Insert a new person record into the database using a demographic list. You must call ui-start- transaction before inserting a person record.
ui-local-id-merge	Merges two member profiles based on local IDs in a specific system.
ui-local-id-status	Returns the status of a local ID record.
ui-lookup	Replaces the lookup function from version 4.1.1.
ui-lookup-address-id	Searches for the address ID of an existing address record based on the corresponding UID and address type.
ui-lookup-local-id	Looks up a local ID associated with the specified system based on a member's local ID in another system. This API searches by local ID status.
ui-poll-startup	Invoke setup and specify instance-specific function loads.
ui-poll-pos-ack	Send a negative acknowledgment to the polling e*Way to indicate that an Event was received successfully.
ui-poll-neg-ack	Send a positive acknowledgment to the polling e*Way to indicate that an Event was not received successfully.
ui-process-address	Perform an address update or insert, depending on whether an address record already exists for the given address type and UID.
ui-process-person	Process messages coming into the database. This function is actually composed of several Monk APIs. You can customize this function to process records in the manner that best suits your processing requirements.
ui-process-phone	Perform a telephone number update or insert, depending on whether a telephone record already exists for the given address type and UID.
ui-rollback-transaction	Roll back the transaction in the database and reset the transaction structure.

This Monk API	performs this action
ui-search-close	Close the search cursor, and de-allocate the memory.
ui-search-get-exact- match-score	Return the weight of an exact match to a new record if one exists in the database. This function checks to see if 1EXACTMTCH is enabled before returning the weight. Before calling ui-search-get-exact-match-score , you need to call ui-search-open .
ui-search-get-exact- match-uid	Return the UID of the record that is an exact match of a new record if an exact match exists in the database. Before calling ui-search-get-exact- match-uid , you need to call ui-search-open .
ui-search-insert-duplicate	Allow the records in the search cursor to be added to the <i>ui_duplic</i> table.
ui-search-local-id	Searches for local IDs in a specific system based on a member's UID and the status of the local IDs.
ui-search-open	Open a cursor of weighted records returned from a search that is based on the demo-info query list. This function returns the number of records in the result set.
ui-set-queue-id	Change the status of a queued message if the dequeued message is not sent successfully (as determined by a nack event in the polling e*Way).
ui-start-transaction	Start a transaction for a specific UID (if the UID is left blank, then the next available UID is assigned). A transaction is only initiated if a database insert, update, or delete is performed.
ui-update-address	Updates an existing address in the database. A transaction must be started before calling ui-update-address .
ui-update-aux-id	Update a non-unique ID given the ID type and the ID. Before calling ui-update-aux-id , you must call ui-start-transaction to designate which UID record is being modified.
ui-update-person	Update a record using a demographic list. You must call ui-start-transaction before updating a person record.

Modified Monk APIs

The following table lists the Monk APIs that were modified between versions 4.1.1 and 4.5.2, and provides a brief description of the changes. For a

This Monk API	was modified in this way
ui-merge	The syntax has changed to (ui-merge connection-handle source-uid dest-uid system source dept terminal-id user-id)
ui-lookup	This API has been replaced by ui-lookup-local- id, but is still available for use.

complete description of these APIs, see Chapter 4 of the *e*Index Global Identifier Technical Reference*.

Obsolete Monk APIs

Several Monk APIs for e*Index were removed between versions 4.1.1 and 4.5.2. The following Monk APIs are obsolete and no longer used.

- alta-conversion
- alta-init
- alta-process-person
- alta-release
- get-uid
- lookup (replaced by ui-lookup)
- ui-alias-insert
- ui-alta-disable-extensive-search
- ui-alta-enable-extensive-search
- ui-date
- ui-db-date
- ui-db-time
- ui-demographic-changed
- ui-enqueue
- ui-get-id-facility (replaced by ui-get-id-system)
- ui-get-queue
- ui-releaseq
- ui-time

Schema Changes

Several changes were made to the e*Index sample Schema to accommodate the new tables and columns in the e*Index database. It is now optional to install a new Schema when you install the e*Index files for e*Gate. If you do not want to overwrite an existing Schema, you can simply install the binary, library, and certain Monk files for the Schema in the default directory of the registry. When you do install the sample Schema, the files are distributed differently for this version than for previous versions. See chapter 2, "Installing the e*Gate Schema Files," in the *e***Index Global Identifier Installation Guide* for more information about these changes and to view a diagram of the Schema file directory structure.

ui-fns.monk

Two new functions were added to the Monk functions file **ui-fns.monk**. These functions allow you to scroll through the records returned by the new local ID APIs (described earlier). For a complete description of these functions, see Chapter 4 of the *e*Index Global Identifier Technical Reference*.

This Monk function	performs this action
ui-get-next-element	Returns the next element in a vector.
ui-has-next-element	Checks if there is a next element in a vector, and returns #t if a next element is found.

ui-stdver-eway-funcs.monk

- The obsolete call to alta-init was removed from the ui-stdver-conn-estab function. Calls to ui-get-error-string and db-get-error-str were added to this function for better error handling.
- The obsolete define statements for out-queue-input-delm, out-queueinput-struct, out-queue-output-delm, and out-queue-output-struct have been removed.

ui-poll was also modified slightly. For more information about the polling functions, see "Standard Monk API Descriptions" in chapter 4 of the *e*Index Global Identifier Technical Reference*.

ui-custom.monk

- The existing statements that create the Monk lists (which are used as parameters in the Monk APIs) have been modified to include additional data elements. These modifications support the new sample Event Type Definition included with the sample Schema. The existing statements include get-demographics, get-transact, and get-alias.
- Two new statements, get-address and get-phone, were added to create the address and telephone lists that are used as parameters for the new Monk APIs.

Minor changes were made to the get-transact function in uicustom.monk to retrieve both the date and time of event. These lines in the previous versions of the file:

(if (not-empty-string? ~<msg>.EVNT.EVN.date_of_event)
 (string-append ~<msg>.EVNT.EVN.date_of_event " "
 ~<msg>.EVNT.EVN.time_of_event)

were replaced with these new lines in the current version of the file:

To find out more about these changes, review the ui-custom.monk file.

Event Type Definition File

The old event type definition file, **A0X_ui.ssc**, has been removed, and a new event type definition file, **eiEvent.ssc**, has been added. This file is very different from the old event type definition file, and has been extended to accommodate the many new data elements that e*Index can now accept from an incoming Event.

uidb.dsc

The file **uidb.dsc** has been modified to handle the new event type definition file, **eiEvent.ssc**, and to call the new Monk APIs instead of the obsolete API **alta-process-person**. It was also modified to include the new Monk lists created in **ui-custom.monk**. SeeBeyond recommends reviewing the new **uidb.dsc** file to determine the differences between your current Collaboration Script and the default 4.5.2 script. This will help you analyze and design the required customizations you need to make to the 4.5.2 script in order to process records in a manner similar to the 4.1.1 environment.

Notes on the Database Migration

Overview

There are a few important issues to remember when performing the database migration from version 4.1.1 to 4.5.2. For more information about data migration issues and considerations, see chapter 2 of the *e*Index 4.1.1 to 4.5.2 Upgrade Guide*.

Potential Duplicates

The *ui_duplic* table is not migrated to the 4.5.2 database. All potential duplicate records should be either resolved or merged prior to performing the migration in order to maintain the integrity of your production data. If any rows remain in the *ui_duplic* table at the time of migration, **the migration will not be affected**.

Vality Rule Set Files

It is assumed that you will use the same or similar weighting logic, as defined in the **UI** rule set files, for the 4.5.2 environment as was used for the 4.1.1 environment. Any alterations in the weighting logic may cause weighting discrepancies between the data migrated from the 4.1.1 environment and new data processed through the 4.5.2 environment.

Custom Database Components

If you have customized your e*Index database by creating any of the following items, it is important to note that any non-standard components are not migrated. If you want to maintain the functionality of these items, you need to add them to the new e*Index 4.5.2 database manually.

- New database tables
- New columns added to existing tables
- New stored procedures
- New triggers
- New views