

# Release Notes

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IBM® Tivoli® Identity Manager

Lotus Notes Adapter

## ***Version 5.0.16***

**First Edition (March 31, 2012)**

This edition applies to version 5.0 of Tivoli Identity Manager and to all subsequent releases and modifications until otherwise indicated in new editions.

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## Preface

Welcome to the IBM Tivoli Identity Manager Lotus Notes Adapter.

These Release Notes contain information for the following products that was not available when the IBM Tivoli Identity Manager manuals were printed:

- IBM Tivoli Identity Manager Lotus Notes Adapter Installation and Configuration Guide

## Adapter Features and Purpose

The Lotus Notes Adapter is designed to create and manage Domino accounts. The Adapter runs in “agentless” mode and uses the Lotus Notes Administrator Client software to manage a single Domino domain. The adapter supports multiple mail servers, a single Registration server and multiple Lotus SameTime servers.

IBM recommends running the adapter in agentless mode; installation on the Domino server is not recommended. The deployment configuration is based, in part, on the topology of your network domain, but the primary factor is the planned structure of your Identity Manager Provisioning Policies and Approval Workflow process. Please refer to the Identity Manager Information Center for a discussion of these topics.

The Identity Manager Adapters are powerful tools that require Administrator Level authority. Adapters operate much like a human system administrator, creating accounts, permissions and home directories. Operations requested from the Identity Manager server will fail if the Adapter is not given sufficient authority to perform the requested task. IBM recommends that this Adapter run with administrative (root) permissions.

## Contents of this Release

### ***Adapter Version***

Component	Version
Release Date	March 31, 2012
Adapter Version	5.0.16
Component Versions	Adapter Build 5.0.1025 Profile 5.0.1010 ADK 5.20
Documentation	Lotus Notes Adapter Installation and Configuration Guide SC23-6153-00 Lotus Notes Adapter User Guide SC23-6154-00 Notes Shuttle Administration Guide Notes Shuttle White Paper Silent Installation Reference

## New Features

Enhancement # (FITS)	Description
	<b>Items included in current release</b>
	Adapter support for Lotus Notes 8.5.3 and Lotus Domino 8.5.3
	Adapter support for Lotus Notes 8.5.2
	<b>Items included in 5.0.15 release</b>
MR0322111637	Ability to create two replica mail files.
	<b>Items included in 5.0.14 release</b>
MR083110947	ITIM Lotus Notes Adapter 5.1.x with Notes Domino 8.5.2
MR1220105153	Adapter support for Lotus Domino 8.5.2
MR0214114828	Adapter support for Lotus Domino 8.5.2
MR0902101826	ITIM Lotus Notes Adapter 5.0.x with Notes Domino 8.5.2
MR1221104359	Notes Adapter throws ERROR when suspend request for account that is already suspended.
	<b>Items included in 5.0.13 release</b>
MR0702092650	Create new Notes Adapter DeleteGroup with same membership as previous group (DeleteGroup) 'group' membership. (Child groups)  See "Configuration Notes" for more information.
	<b>Items included in 5.0.12 release</b>
MR1218092647	The notes suspend requests performance improvements
	<b>Items included in 5.0.11 release</b>
MR0325102357	TIM 5.0 Notes Adapter support for Windows 2008. Please review the "Known Issues" section of this document for important information about this configuration.
	<b>Items included in 5.0.10 release</b>
	None
	<b>Items included in 5.0.9 release</b>
MR012909148	Notes: adapter to support ID vault, new feature in 8.5 Domino.
MR040309323	Notes: Updated TIM adapter for Lotus Notes v8.5 ID Vault capability.
	<b>Items included in 5.0.8 release</b>
N/A	Updated Shadow Adapter to the latest version. Supports TIM v5.0 and TIM v5.1
	<b>Items included in 5.0.7 release</b>
	None

Enhancement # (FITS)	Description
	<b>Items included in 5.0.6 release</b>
OSDB	Added support for Notes Domino v8.5 Notes adapter can now be used with Lotus Domino server 8.5. Currently, additional features of Lotus Domino 8.5 are not supported. This certification implies that the existing features will work with Lotus Domino 8.5.  See "Configuration Notes" of this document for more information.
MR0129095247	Added support for SameTime 8 Notes adapter can now be used with SameTime 8 installed with Lotus Domino server 8.0 or 8.5
MR0609081736 MR0821071623	Enhance the adapter to allow multiple passwords for Workstation ID file / Certifier ID file.
N/A	Add support for Domino Server names containing Unicode characters.
	<b>Items included in 5.0.5 release</b>
MR0609081736 MR0821071623	Enhance adapter to support multiple password certifier.  See additional Notes in the Configuration Section.

Enhancement # (FITS)	Description
	<b>Items included in 5.0.4 release</b>
	None
	<b>Items included in 5.0.3 release</b>
MR0917074910	Support multi-values for short name/SCSL  See additional information in the section "Using Notes 4.6.19 Features"
MR0212072954	Extended support for mail file quota size, mail threshold warning, replica server & replica mail file during creation of mail file in background using AdminP request  See additional information in the section "Using Notes 4.6.19 Features"
	<b>Items included in 5.0.2 release</b>
MR0725071550	Supporting any level of nested folder structure for Shadow NAB, for Shadow Agent.  See additional information under "ShadowNAB Folder Structure" in the Configuration Section of this document.
MR1218075919	Use C API to set HTTP Password. Eliminates problems some customers experience with data type conversion errors in the NAB. Affects the ability to change HTTP passwords in some situations.
MR0212072954	Create mail file in background using Adminp operation  See additional information under "Create Mail File Using AdminP" in the Configuration Section of this document.
	<b>Items included in 5.0.1 release</b>
N/A	Adapter is compatible with Notes R8 but does not make use of new features in that release.
	Initial release for Tivoli Identity Manager v5.0



## Closed Issues

INTERNAL#	APAR#	PMR# / Description
		<b>Items closed in current version</b>
RTC 46812	IV08738	Creating User mailfile in preferred language which is different from the default template.  1. Make sure the required Domino language packs are installed. 2. Specify the correct translated template during user registration.
RTC 52402	IV10550	Upgrade from NotesAdapter 5.1.7 to 5.1.9 doesn't work.
RTC 51256	IV13289	Removing roaming subfolder on user delete.  The adapter registry setting must be modified so that "Execute AdminP Operation=TRUE"
RTC 55033	IV16871	Notes Agent crash when request sent to it.
RTC 52192	IV15381	Add user with do not add to NAMES.NSF does not work if roaming is enabled in the add request  The fix is the revision of fix for APAR IZ98608.
		<b>Items closed in 5.0.15 version</b>
	IV04638	Notes adapter creating duplicate groups for groups that include / (forward slash)
	IV03409	Notes Adapter error message "Unable to reset password in the ID Vault..." incorrect.
		<b>Items closed in 5.0.14 version</b>
	IZ94372	Generic exception with Notes provisioning
	IZ95316	NOTES ADAPTER LEAKS MEMORY DURING RECON
	IZ96851	Icelandic characters in user name
	IZ98608	Using vault but ID is added to NAMES.NSF during add
	IZ98979	Notes adapter replaced Last Name With Full Name during failed change password
	IZ89295	Invalid CustomEruid example in "Lotus Notes Adapter User Guide" document
	IV01106	Notes Adapter Silent install issue
RTC 37040		Remove Notes 6.5 and 7.0 support from Notes Adapter Installer
RTC 38884		Notes Adapter crashes on Recon when "Attributes to Recon" registry key is set
		<b>Items closed in 5.0.13 version</b>
	IZ84392	00423,SGC,740 Notes adapter provisioning returns erroneous file does not exist error when the mail file path does not exist.
	IZ89285	00448,SGC,740

		Notes Adapter ernotesmemberofgroups not reconciled
		<b>Items closed in 5.0.12 version</b>
		None
		<b>Items closed in 5.0.11 version</b>
	IZ75627	08247,999,706 Notes Adapter crashing while provisioning accounts.
		<b>Items closed in 5.0.10 version</b>
	IZ65731	09936,122,000 Notes Adapter does not set "Member of Group" for a person doc only user (Web user).  When a web user was created from ITIM and assigned a group membership during user creation the "ermemberofgroup" attribute is not set. Hence the user is created but does not get added in the particular group membership.
	IZ65639	50474,227,000 Notes adapter does not return proper status for users in Suspend Group(s) during filter recon.  Previously, Notes adapter did not return proper status for users which are part of Suspend Group other than Suspend Group specified in the registry key. For example, adapter registry key "Suspend Group = SuspendGroup" and few more suspend groups exists on resource like SuspendGroup1, SuspendGroup2, etc. Adapter used to return incorrect eraccountstatus for users present in SuspendGroup1, SuspendGroup2, etc. This issue was only reproduced during lookup operation.

INTERNAL#	APAR#	PMR# / Description
36963		<p>N/A</p> <p>Notes adapter returns Suspend HTTP password group during user lookup operation with improper user account status.</p> <p>During user lookup operation Notes adapter returned Suspend HTTP password Group as member of group. It also returns incorrect account status for users present in Suspend HTTP password group.</p>
36964		<p>N/A</p> <p>Notes adapter returns Delete Group during user lookup operation</p> <p>During user lookup operation Notes adapter returns Delete Group as member of group.</p>
36965		<p>N/A</p> <p>Unnecessary group is created when group is deleted from user's group membership from ITIM.</p> <p>Unnecessary group was created when a group does not exist on resource and if the same group is tried to be deleted from group membership of the user from ITIM.</p>
		<b>Items closed in 5.0.9 version</b>
	IZ56219	<p>78984,021,724</p> <p>Notes adapter was not releasing memory.</p>
		<b>Items closed in 5.0.8 version</b>
	IZ49719	<p>30378,077,649</p> <p>Notes adapter may crash if null is sent to the adapter for the erNotesSametimeOnly attribute.</p> <p>The attribute ernotessametimeonlyaccount is of type BOOLEAN and hence the Adapter did not expect the value to be null. Now the Adapter identifies null values sent for BOOLEAN attributes and sets attribute level failure. This check is performed for all Boolean attributes.</p> <p>NOTE: Provisioning Policies must contain a valid Boolean True/False value or the adapter will fail the attribute.</p>

INTERNAL#	APAR#	PMR# / Description
		<b>Items closed in 5.0.7 version</b>
	IZ48418	<p>94805,077,649 Multiple Notes ShortName values not formatted correctly for use with iNotes.</p> <p>The Notes Adapter supports multiple values for ShortName field when the "Use ShortName" (for ERUID) registry key is set to FALSE. Currently, the multiple ShortName values get stored as a semi-colon separated string on the Person Document. With this fix, the multiple ShortNames get stored one below the other as a list on the Person Document.</p> <p>NOTE: There is no change to the TIM server profile or data format. During both Add and Modify operations, multiple ShortName values are still to be given as a semi-colon separated string in the ShortName attribute on the Account Form. The adapter internally parses and stores in correct format on the Person Document.</p>
		<b>Items closed in 5.0.6 version</b>
	IZ47931	<p>52289,740,740 Documentation update for Notes Adapter.</p> <p>NOTE: When documentation refers to "Notes GroupName" it refers to only a group name. The Notes adapter does not support the "GroupName;Alias" feature. (PMR 52237,740,740 - Member of groups attribute incorrectly reconciled if Group name has aliases)</p>
	IZ42411	<p>92417,999,760 Failed to create Notes account on Domino V8.0.2 when "Other Internet Mail" is specified.</p> <p>User registration fails when user is created on domino version 8 with mail system 'Other Internet Mail' or 'POP or IMAP'. Notes Adapter can create user with mail system 'Other Internet Mail' or 'POP or IMAP', on domino versions prior to 8.</p> <p>See "Configuration Section" of this document for additional information.</p>
	IZ29582	<p>51832,740,740 Syntax error for eruid when eruid value in format CN=abc d efg/O=com</p>
33295		<p>N/A No value is returned for eraccountstatus during reconciliation</p>
33296		<p>N/A User name not changed in ShadowNAB after rename operation causing subsequent password changes to fail (Documentation defect)</p>

INTERNAL#	APAR#	PMR# / Description
		<b>Items closed in 5.0.5 version</b>
32829	N/A	N/A Attribute MailQuotaSize is reconciled, even if this attribute is added in registry key "Attributes not RECONCILED".
		<b>Items closed in 5.0.4 version</b>
	IZ24826	81316,7TD,000 Provisioning fails if the Notes Fullname is unique only due to an accented character (e.g. umlaut).
	IZ25030	69785,000,672 Notes Adapter throws "Generic Exception", if multiple client licenses values are selected during user registration.  See the "Configuration Section" for more information on this feature.
	IZ27749	01166,070,724 Notes adapter is not installed correctly if there is a space in the installation directory name.
		<b>Items closed in 5.0.3 version</b>
32549	IZ12295	26138,999,760 Alternate name and Language value lost after password change operation. Mail System & Client License not retained in re-registration
		<b>Items closed in 5.0.2 version</b>
N/A	IZ14473	27405,999,834 Notes Adapter does not start if Explicit Policy is given as a Custom Attribute for Domino R6.  See additional information under "Explicit Policies with R6" in the Configuration Section of this document.
31865	N/A	N/A Notes Adapter (build no 5.0.1006) Service is not started automatically after Notes Adapter is installed
		<b>Items closed in 5.0.1 version</b>
		None

## Known Issues

INTERNAL#	APAR#	PMR# / Description
RTC 55034		<p>User not added to vault when notes explicit policy allows it.</p> <p>This a Notes related issue (SPR MSKA8R8JWK). Following workaround will, however, work in the interim:</p> <ol style="list-style-type: none"> <li>1. In the Domino Admin Client, open the Registration Settings for the explicit policy. Edit Settings.</li> <li>2. Click on the 'Miscellaneous' tab. In the 'Group Assignments' list select any group. E.g. LocalDomainAdmins. Save the settings.</li> <li>3. Register a new user with the explicit policy.</li> </ol>
RTC 55036		<p>Password Hash not secure with ITIM/Lotus.</p> <p>This is a Notes related issue. Upgrading to Notes version 8.5.2 or 8.5.3 will fix the issue.</p>
	IV11894	<p>Incorrect status on Delete operation for restricted authority</p> <p>The Notes ID used by the adapter must have full administrative authority; this is the only supported configuration. If this account does not have authority to delete domino accounts, the adapter may return a "warning" status, which will be interpreted by the TIM server as a "success" (TIM does not recognize "warning" as a valid status on a Delete).</p>
N/A	N/A	<p><b>VMware and Remote Desktop</b></p> <p>The Lotus Notes Adapter is not supported in a VMware environment and may not be managed via Windows Remote Desktop environment. These tools are incompatible with the Notes client and problems will result, including adapter crashes and failed transactions. VNC has been tested and approved for remote management of the Notes Adapter environment.</p>
N/A	N/A	<p><b>Limitations on Case Differentiated Values</b></p> <p>Domino server allows entering two similar values differing only in case, in multi valued attributes. However, the adapter will not allow to add/modify values differing only in case for the following multi-valued attributes during USER ADD/MODIFY request:</p> <ol style="list-style-type: none"> <li>i) FullName on person document</li> <li>ii) custom attribute specified in registry key 'CustomEruid'.</li> <li>iii) Members on group document</li> <li>iv) DenyAccess on server document</li> </ol>
N/A	N/A	<p><b>Custom Attribute Support</b></p> <p>Notes Adapter supports following two attributes only a Custom Attributes for Domino version 7 onwards.</p> <ol style="list-style-type: none"> <li>a. DB2 Account Name.</li> <li>b. LTPA User Name.</li> </ol> <p>Note: These attributes cannot be used as the value of "CustomEruid" registry key.</p>

N/A	N/A	<p><b>Editing adapter profiles on UNIX or Linux.</b></p> <p>The adapter profile JAR file may contain ASCII files created using MS-DOS ASCII format (i.e. schema.dsml, CustomLabels.properties, and service.def). If you edit a MS-DOS ASCII file in Unix you will often see the characters ^M at the end of each line. This is the extra character 0x0d that is used to indicate a new line of text in MS-DOS. There are tools, such as dos2unix, that can be used to strip out the ^M character. In addition, there are text editors that will ignore the ^M character.</p> <p>If you are using the vi editor, you can strip out the ^M character as follow:</p> <p>From the vi's command mode:</p> <pre>:%s/^M//g</pre> <p>followed by pressing Enter. The ^M (or Ctrl-M) typed to show it here should actually be entered by pressing ^v^M in sequence. (The ^v preface tells vi to use the next keystroke literally instead of taking it as a command.)</p>
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INTERNAL#	APAR#	PMR# / Description
N/A	N/A	<b>Using the Upgrade Option:</b> The Upgrade option is applicable only to 5.0.x maintenance upgrades. The upgrade option is not designed for v4.6 to v5.0 migrations. NOTE: After using "Update Installation" option with higher version of Adapter, an extra folder with name "_uninst2" is created. It can be ignored. To Uninstall the Adapter, use "_uninst" folder.
N/A	N/A	<b>Event Notification</b> Account status (Active/Inactive) might not properly updated on Identity Manager after event notification.
		<b>This adapter does not use an xforms.xml file.</b> Errors in the adapter log concerning xforms may be safely ignored. Error message is: "Unable to load XML transformation buffer from...".
N/A	N/A	<b>Password Change Date</b> MR1031073543 - Setting the timestamp for the "last password change date" when changing the HTTP password is not supported in Adapter because Lotus Notes API does not support AdminP request for changing HTTP Password.
N/A	N/A	<b>Notes Group Names</b> When documentation refers to "Notes GroupName" it refers to only a group name. The Notes adapter does not support the "GroupName;Alias" option in Domino.
33296	N/A	<b>Update shadow database after AdminP rename operation</b> The Notes Adapter gives a provision to create an AdminP Rename request for a particular user. After this request is processed, the user's information is not updated in the ShadowNAB. As a result, any adapter operation, which needs to access the user's entry in the ShadowNAB will fail.  To avoid this limitation, the ShadowNAB must be updated after the successful execution of AdminP Rename operation by using the Notes Shadow Adapter. The Shadow Adapter must be used to create the renamed users entry in the ShadowNAB. At this point, the ShadowNAB will have 2 entries for the same user - one with the older name and other with the updated name. The old entry of this user should be deleted from ShadowNAB. Following this process, all the operations involving ShadowNAB will be successful.
N/A	N/A	<b>Password Quality Scale:</b> If the Password Quality Scale attribute (ernotespasswordscale) is not provided during User Add or Re-registration, then the length of the provided password will be set as the Password Quality Scale.



INTERNAL#	APAR#	PMR# / Description
N/A	N/A	<p><b>Notes Single Logon (NSL)</b>            If Notes Single Logon (NSL) feature of Lotus Notes Client is used, then it is not recommended to use the Shuttle Utility. There is a known issue with respect to Shuttle Utility deployment with NSL where attempting to synchronize an ID file that contains the same password as the prior ID will cause the Notes client to hang during the shuttle initiated restart.</p>
N/A	N/A	<p><b>Limitation for Lotus Notes Adapter on Windows 2008</b>            Lotus does not officially support the Notes Client on Windows 2008, but the TIM Adapter does support this configuration as long as the following conditions are met:</p> <ol style="list-style-type: none"> <li>1) The Notes client must be closed during adapter operation. No one must be logged into the client and no other Notes related process must be running.</li> <li>2) The Adapter must be restarted after any use of the Notes client. Restart the adapter after the Notes client and all related processes are closed completely.</li> </ol> <p>Crash and hang issues with Notes Adapter on Windows 2008 may occur if these restrictions are not followed.</p>
N/A	N/A	<p><b>Class 3 Certificates</b></p> <p>Class 3 Certificates (class 3 secure server CA-G2) are not written properly to "DamlCACerts.pem" file through CertTool.exe Utility. The certificate data is written twice between BEGIN CERTIFICATE and END CERTIFICATE.</p> <p><b>Work around:</b>            -----</p> <p>To correct this issue, please follow the below steps and edit "DamlCACerts.pem" file present in "&lt;Adapter installation path&gt;\data" folder.</p> <p>Step 1. Start the CertTool utility            Step 2. Import the class 3 CA certificate by using "F" option from the main menu of CertTool Utility.            Step 3. Once the class 3 CA certificate is successfully installed, open "DamlCACerts.pem" file stored in the "&lt;Adapter installed path&gt;\data" folder using text editor.</p> <p>Step 4. Delete the class 3 CA certificate data (i.e. content between BEGIN CERTIFICATE and END CERTIFICATE) from "DamlCACerts.pem".</p> <p>Step 5. Open class 3 CA certificate file using text editor and copy the certificate data (between the BEGIN CERTIFICATE and END CERTIFICATE)</p> <p>Step 6. Paste the certificate data to "DamlCACerts.pem" file between the BEGIN CERTIFICATE and END CERTIFICATE lines of same class 3 CA</p>

		<p>Certificate. If more than one class 3 certificates are installed then you can identify the certificate using issuer and subject data.</p> <p>Step 7. Save "DamlCACerts.pem" file.</p> <p>Step 8. To verify the "DamlCACerts.pem" file is edited properly, display certificate information by using option "E" from the main menu of CertTool Utility.</p> <p><b>Note:</b> ----</p> <p>Please note that this issue is seen after installing class 3 CA certificate. If you correct the DamlCACerts.pem and then install another class 3 CA certificate, the newly installed class 3 CA certificate will show same issue.</p> <p>This issue is also seen when you delete any certificate using option "G" from the main menu of CertTool utility. The delete option will affect all remaining class 3 CA certificate and you have to follow step 1 to 8 to correct the DamlCACerts.pem file.</p>
		<p><b>Using Blank or Custom Template for Shadow DB</b> PMR 64324,227,000 - Issue with Notes Adapter when Blank\Custom template is used to create shadow database.</p> <p><b>Work Around :</b> The new enhanced search logic in NotesAgent uses some specific views while searching on any database. The default database "names.nsf" used by adapter, already has these views. If there is a need to use some other database, such as the case of Shadow Database, then make sure that the new database is created from a template which has the needed views. If the template doesn't has the needed view, then copy them from pernames.ntf and paste them to the template being used. If the database(which is going to be used) already exists and it doesn't has the necessary views, then copy the necessary views from pernames.ntf to this Database and then use it.</p> <p><u>Steps to add the view :</u></p> <ul style="list-style-type: none"> <li>• Open the template "pernames.ntf" in the Lotus Domino Designer.</li> <li>• Expand the list of all views in that template.</li> <li>• Copy the view named "\$Users".</li> <li>• Open the template or database which needs to be modified.</li> <li>• Go to views, right click and select paste.</li> <li>• You can see that the view gets added to that list.</li> </ul> <p><u>Views which need be copied :</u></p> <ul style="list-style-type: none"> <li>• "\$Users".</li> <li>• "\$RegisterGroups".</li> <li>• "\$Servers".</li> </ul>

## Installation and Configuration Notes

See the IBM Tivoli Identity Manager Adapter Installation Guide” for detailed instructions.

### ***Running v4.6 and v5.0 Adapters on the Same Server***

The Identity Manager version 5.0 adapters have enhanced capabilities that are not compatible with older version 4.6 adapters. It is highly recommended that all adapters hosted on an individual server are upgraded at the same time.

Adapters installed on the same server may share common components or run-time environments. The version 4.6 adapters may not be compatible with the version 5.0 component and may no longer operate as expected after installation of a version 5.0 adapter. On Windows servers all adapters must be upgraded simultaneously due to the sharing of DLLs. Check the adapter installation guide for additional information.

### ***Corrections to Installation Guide***

The following corrections to the Installation Guide apply to this release:

**NOTE:** When documentation refers to “Notes GroupName” it refers to only a group name. The Notes adapter does not support the “GroupName;Alias” option in Domino.

**NOTE:** The Adapter Installation and Configuration Guide lists Windows 2000 as a supported platform, however, Microsoft has recently ended mainstream support for this version. While there are no known issues associated with hosting the adapter on Windows 2000, if a problem does arise that is tracked to the OS, Tivoli Support will ask you to upgrade to the officially supported version, Windows 2003.

**NOTE: Password Quality Scale:**

If the Password Quality Scale attribute (ernotespasswordscale) is not provided during User Add or Re-registration, then the length of the provided password will be set as the Password Quality Scale.

### **VMware and Windows Remote Desktop Support Statement**

The Lotus Notes Adapter is not supported in a VMware environment and may not be managed via Windows Remote Desktop environment. These tools are incompatible with the Notes client and problems will result, including adapter crashes and failed transactions.

## Configuration Notes

The following configuration notes apply to this release:

NOTE: When documentation refers to “Notes GroupName” it refers to only a group name. The Notes adapter does not support the “GroupName;Alias” option in Domino.

NOTE: Changes to user ID files will cause encrypted databases to no longer be accessible. Do NOT submit password change requests for users that have encrypted database unless the ShadowNAB Utility has been installed and configured.

NOTE: Support for ITIM-Only Attributes. Attributes that are present in the schema but not supported by the adapter will be ignored. The entries of this type must be made only in the schema. They must not be added to the CustomAttributes.xml. Example: Certifier ID Path.

NOTE: Client License Behavior.

Note: During user registration client license value 'Lotus Notes' will be assigned to user, irrespective of whether it is selected or not on ITIM. This is a Domino application behavior. Also note that to create user of type 'person document only', only one client license value 'Lotus iNotes/Domino CAL' should be selected. Selecting multiple values along with 'Lotus iNotes/Domino CAL' results in creation of 'ID file user'.

### **AdminP -- Full Remote Console Access Required**

The workstation ID that is used by Notes Adapter to authenticate with Domino Server must have “Full Remote Console Access” granted. If this privilege is not granted, failures will result on AdminP transactions performed through Identity Manager. Affects all ADMINP commands issued through the Notes Adapter.

If full remote access is not granted, the error 'Unable to process Administration Request 'You are not authorized to use the remote console on this server' will be displayed. However, the AdminP request is created successfully in admin4.nsf database and the AdminP operation completes successfully.

NOTE: errors are displayed on the Identity Manager Audit Log but the AdminP transaction may still be performed correctly.

### **Support for iNotes Accounts.**

The ITIM Notes Adapter uses the attribute PersonDocOnlyAccount to identify iNotes users that do not have a Notes ID File. This flag is required on all iNotes accounts without an ID File. Two options are available:

- 1) Create all iNotes accounts using ITIM. This sets the necessary flag.
- 2) Create accounts in Domino and manually add the PersonDocOnlyAccount attribute.

### **Using the Notes Adapter on a Japanese OS**

When running the adapter on a Japanese Version of Notes Administrator and Domino Server on Japanese OS. After successfully installing the Adapter , please follow the steps below to set the Code Page:

- a. Run agentCfg.exe for the agent.      Example: agentCfg.exe -a NotesAgent
- b. Select option "I. Codepage Support"

- c. Select option "A Codepage Configure"
- d. Enter appropriate codepage.           Example: "ibm-943\_P14A-1999"
- e. Restart Notes Adapter.

NOTE: List of supported codepages can be found by using -codepage option of agentCfg.  
Example: agentCfg.exe -a NotesAgent -codepage

## Using Notes Adapter v5.0.2 Features

### Creating Mail Files with AdminP

Notes Adapter has been enhanced to support creation of mail file in the background by creating an AdminP request for the same. This enhancement allows user registration in relatively short time as the mailfile is not created during user registration.

**CAUTION:** due to a number of limitations with this feature, customers should carefully evaluate the need for background mail file creation prior to activating the feature.

Following are the features of this enhancement

- (a) On the ITIM Account form, a new attribute has been added which sets the flag whether to create mailfile in background or create immediately. Its default value is "Not Applicable" i.e. the older Adapter behavior. The values for this attribute can be set by way of a combo box which has three options:
  - a. Not Applicable - This is the default value. It indicates that the user does not want to use this feature and hence Adapter follows its older behavior which is "Mail file will be created immediately". If Explicit Policy is applied while creating user then the mailfile gets created immediately or in background as per the setting in the Policy
  - b. Yes - This indicates that the user wants to create the mailfile in background by way of AdminP process. If an Explicit Policy is applied for registration then mailfile gets created in background irrespective of the choice given in Explicit Policy for mail file creation (either in background or immediately).
  - c. No - This indicates that the user wants to create the mailfile immediately. If an Explicit Policy is applied for registration then mailfile gets created immediately irrespective of the choice given in Explicit Policy for mail file creation (either in background or immediately).
- (b) By creating the mailfile in background, the user registration is faster. This is because Domino will go on registering users without waiting for their mailfiles to be created. All these mailfile creation requests will be queued in `nadmin4.nsf` of the administration server and get executed by the AdminP process.
- (c) Usually the AdminP process runs as per a schedule configured by the Notes Administrator. If the AdminP process is to be executed immediately, give the command "tell AdminP process all" on the Domino Server console.
- (d) If the mail server is specified on account form, its value must be specified in canonical (fully distinguished) form (i.e. `CN=<mailserver>/O=<domain>`. eg: `CN=Hub01/O=IBM`) if mail file is to be created in background. This value must be given in the mail server field present in the Mail tab of the Account Form
- (e) This attribute is not stored in the Person Document on the resource. Hence after reconciliation operation, its value is always set to "Not Applicable". This attribute can be set only during user registration and its value cannot be changed during Modify request from ITIM.
- (f) If "Create Mailfile in Background" flag is set for SametimeOnly users, Adapter will give an attribute level failure since SametimeOnly account does not have a mailfile but SametimeOnly user will be created without any mail file.

- (g) If "Create Mailfile in Background" flag is set for PersonDocOnly Users, its value is ignored. This is because for PersonDocOnly users, mailfile is not created during registration. Hence setting this flag has no effect and the user gets created as a PersonDocOnly user without any mailfile
- (h) If the mail system specified on ITIM is other than Notes, then Adapter does not create a mail file for such users. Likewise, if Create Mailfile in Background flag is set for mail system other than Notes, then the flag is ignored and user is created to have mail system other than Notes. In this case, AdminP request for mail file creation is not created.

Following are the limitations of this enhancement

- (a) When this flag is set, only an AdminP request is generated to create the mailfile in background. When this request is successfully created, the Adapter returns the status to ITIM as success. Adapter has no way of knowing the status of the request after it gets executed since it is an asynchronous request. If the request fails, then it is the responsibility of the Notes Administrator to manually handle it. The user will have to be deleted and a new "Add User" request will have to be given from ITIM
- (b) When the flag is set to create a mailfile in background, the Adapter creates an AdminP request in the admin4.nsf on the registration server. If the mailserver specified is other than the registration server, then the admin4.nsf of the registration server must be replicated with the admin4.nsf of the mail server. Only after performing this replication, the mailfile creation request will be processed on the mail server.
- (c) When a request is given to create the mailfile in background, user registration involves creation of an AdminP request to create the mailfile rather than create the mailfile itself. Hence there can be a case where a user has been registered and immediately deleted. This leads to two possibilities depending upon registry key values for the Adapter
  - a. Execute AdminP Operation key has value FALSE - In this case the user gets deleted immediately. However the AdminP request to create a mailfile for the user still exists. Hence a mailfile will be created for the user even though the user does not exist on the resource. It is the Notes Administrator's responsibility to handle this situation and manually delete any orphan mailfiles.
  - b. Execute AdminP Operation key has value TRUE - In this case an AdminP request is created to delete the user. AdminP handles this so that the AdminP request to create the mailfile is processed first followed by the AdminP request to delete the user and its mailfile. For this scenario, no manual intervention is required

### **Support for Explicit Policies in R6**

The Adapter does not support use of Explicit Policy during registration if the Domino Version is less than R7. The previous Adapter versions did not support use of Explicit Policy as a custom attribute. This enhancement allows the use of Explicit Policy as a custom attribute if the Domino Version is less than R7. However, if Explicit Policy is used as a custom attribute, Adapter will only set its value on the Person Document and will not apply the Explicit Policy during user registration, or for any other purpose. If the user wishes to apply the provisioning policy for a user account, this feature is not to be used

- (a) This feature deals with allowing Explicit Policy to be used as a custom attribute for Domino Versions less than R7. The steps to use Explicit Policy as a custom attribute are same as those for creating any other custom attribute. But since Explicit Policy is also a standard attribute for the Adapter, the following constraints are present

- a. The datatype of the custom attribute mapped to Explicit Policy must be of type "String".
- b. The flags SCSL or BOOLEAN10 cannot be specified for this attribute in CustomAttributes.xml
- (b) When Explicit Policy is defined as a custom attribute, it may be added to the ITIM UI. The existing standard Explicit Policy attribute supported by Adapter cannot be used. When Domino Server version is less than R7, the support data for standard Explicit Policy attribute will not get reconciled from the resource and hence existing ITIM UI Explicit Policy attribute cannot be used to set a value. To set a value for the custom attribute used for Explicit Policy on ITIM UI, custom attribute should be configured by Form Customization.
- (c) By doing Form Customization, it may be possible to set the value for both the standard attribute and Custom attribute for the Explicit Policy for a Modify request. The outcome of this request is either value being set on the resource. This kind of request is not supported by the Adapter.
- (d) If CONVERTEPTYTODELETE flag is not set for the Explicit Policy custom attribute, then the value set on resource will not be deleted if blank value is given on ITIM as a Modify request. To ensure consistency between the ITIM and the resource, it is recommended that this flag should be set.
- (e) When Explicit Policy is defined as a custom attribute, it cannot be used as a custom eruid.

### **Shadow Adapter Folder Structure**

The previous versions of the Adapter required that the ShadowNAB database should be located in the data directory of the Domino Server. This enhancement allows the use of nested folder structure for ShadowNAB. Now ShadowNAB can be located in a multi-level folder structure inside data directory of Domino Server at \admindatabases\adapterdatabases. In this case, value of registry key "NoteIDsAddressBook" should be admindatabases\adapterdatabases\ShadowDB.NSF. If Log DB is also located in a multi-level folder structure inside data directory of Domino Server at \admindatabases\adapterdatabases, then value of registry key "Log DB" should be admindatabases\adapterdatabases\logdb.nsf



## Using Notes Adapter v5.03 Features

### **Support for multi-valued ShortName / SCSL Support**

(a) Adapter provides SCSL (Semicolon Separated List) support for the following single valued schema attributes, so these attributes can be assigned multiple values separated with semicolon:

erNotesFirstName , erNotesLastName , erNotesMiddleInitial , erNotesShortName , erNotesMailDomain, erNotesMailAddress , erNotesCompanyName , erNotesDepartment , erNotesManager , erNotesOfficePhoneNumber , erNotesOfficeFAXPhoneNumber , erNotesCellPhoneNumber , erNotesPagerNumber , erNotesAssistant , erNotesStreetAddress , erNotesCity , erNotesState , erNotesZip , erNotesCountry , erNotesPhoneNumber , erNotesHomeFAXPhoneNumber , erNotesSpouse , erNotesOfficeStreetAddress , erNotesOfficeCity , erNotesOfficeState , erNotesOfficeZIP , erNotesOfficeCountry , erNotesOfficeNumber , erNotesComment , erNotesCalendarDomain , erNotesWebSite , erNotesAltSortFullName , erNotesDocumentAccess , erNotesOU , erNotesPostalAddress , erNotesHomePostalAddress , erNotesStreet , erNotesccMailUserName , erNotesNetUserName , erNotesEmployeeID , erNotesPersonalID , erNotesPreferredLanguage , erNotesMessageStorage , erNotesAltCommonNameProposed , erNotesAltOrgUnitProposed, erNotesJobTitle , erNotesLocation, erNotesProfiles, erNotesNClientMachine, erNotesNClientPlatform, erNotesNClientBuild

(b) The convention to be followed to set multiple values directly on domino resource is to separate the values with semicolon in between. Giving the values on multiple lines without semicolon on domino resource may result in recon of these attribute values in space separated format, which no longer will be treated as multi valued by Adapter/ITIM.

(c) For attributes erNotesFirstName and erNotesLastName, multiple values should not be used during user registration in ADD request from ITIM side. But in subsequent MODIFY/RECON request, multiple values can be used. It is recommended that multiple values should not be used for First Name, Middle Initial and Last Name if user has Alternate Name, Alternate Language or Mail system with value other than "Notes" and password change operation will result in user re-registration (ID file is NOT stored in ShadowNAB or CertLog.NSF)

(d) Multiple values should not be set for the attribute User Id (eruid) from ITIM/Domino Administrator

(e) If registry key "Use ShortName" is TRUE, attribute Short Name/User ID should not be provided multiple values as SCSL from ITIM side.

(f) When the registry key "Use ShortName" is TRUE:

(i) During recon or Event Notification, adapter picks up only the first value of ShortName attribute from person doc of the resource and ignore all other shortname values present on person doc. In that case only first value of shortname will be set as eruid.

(ii) If eruid is modified from ITIM side, the shortname field on resource also gets updated and all other values of shortname on person doc of the resource will be overwritten with this new value.

(iii) Direct modification of shortname attribute value from ITIM side is not allowed.

Known Limitations of this feature:

(a) Filter recon does not work for attributes with SCSL.

**Creation of Mail Replica During User Registration**

Creation of Mail Replica during user registration when user Mail file created in Background.

(a) This enhancement allows the creation of Mail Replica during user registration when user's mail file is created in background.

(b) To create Mail Replica, it is necessary to specify only the Mail Replica Server name. The Mail Replica will have same filename as that of User Mail file when user's mail file is created in background.

Following are the limitations of this enhancement

(a) Mail Replica can be created in background only for Domino version **R7 and above**.

(b) The Mail Replica has filename same as that of the user's mail file. Although a Replica Mail filename can be given on ITIM account form, it will be ignored for Domino version **R7 and above**.

(c) For Domino version **less than R7**, the behavior will be followed:

When "Replication Server" and "Replication Mail File" are given during user registration and the flag is set to create the mailfile in background, Adapter registers the user and generates an AdminP request to create the mailfile in background but it gives an attribute level failure for "Replication Server" and "Replication Mail File". The error given for these attributes is "Unable to process Administration Request (New Replica --).File does not exist" since the mailfile is not created during registration. If a mail replica is to be created, an AdminP operation should be given as a separate Modify request from ITIM after mailfile has been created by AdminP process.

**Setting Mail Quota and Mail Threshold Warning**

Setting Mail Quota and Mail Threshold Warning during user registration when user Mail file created in Background.

(a) This enhancement allows setting the values of Mail Quota and Mail Quota Threshold Warning values on a user's mail file created in background.

(b) Mail Quota and Mail Quota Threshold Warning values must be given considering that the values will be set in Megabytes.

For example, if values given for Mail Quota and Mail Quota Threshold Warning on ITIM account form are 100 and 80 respectively, adapter will assign values as 100 MB and 80 MB respectively on Domino Mail Server.

Following are the limitations of this feature

(a) For Lotus Notes releases prior to R7, this feature requires the installation of Hotfix for Lotus Notes Client for PMR 37330,999,760 (E.g. for Lotus Notes Client 6.5, the hotfix is 6.5 W32 65HF710). It is necessary that appropriate hotfix for each version is obtained and applied.

(b) If the hotfix has not been applied it is recommended that the Mail Quota and Mail Threshold Warning values not be set during user registration for user's Mail file created in background. It is recommended that without the application of appropriate Hotfix, Mail Quota and Mail Quota Threshold Warning values should not be given during user registration; they must be set by a separate user Modify request after user registration and mail file creation.

(c) If Mail Quota and Mail Quota Threshold Warning values are given without the application of a Hotfix, the AdminP request generated for creating user's mail file will not set these values on user's mail file. Also, the Adapter will not give any errors. Please note that it is necessary to install the Hotfix for Notes Client only if the Client version is older than Notes R7 Client.

(d) For R7 and above, if an Explicit Policy is applied during user registration this feature is not supported. If Mail Quota and Mail Quota Threshold Warning are set for a user's mail file to be created in background and an Explicit Policy for registration is applied, then Mail Quota and Mail Quota Threshold values are not set on the Mail file. If the Explicit Policy applied for registration has some values set for Mail Quota and Mail Quota Threshold Warning, then Mail quota is set to 0 and Mail Quota Threshold Warning is set to 1024 GB on the user's mail file.

(e) If the customer wishes to apply an Explicit Policy during registration, it is recommended that the Mail Quota and Mail Quota Threshold Warning values be given as a separate modify request after user registration and mail file creation is complete.

Please note that this limitation exists only when user's mail file is created in background.

### **Re-registration with Alternate Name and Alternate Language**

Re-registration with Alternate Name and Alternate Language set. This change provides a work around for a known Lotus limitation.

(a) This defect fix performs user re-registration (password change without storing ID file in ShadowNAB or CertLog.NSF) and retains the values specified for Alternate Name, Alternate Language, Mail System and Client License.

Following are the limitations of this feature

(a) To use this feature it is necessary that the user does not have multiple values for First Name, Middle Initial or LastName (SCSL). If user is reregistered with multiple values for First Name and/or Last name and either of Alternate Name or Alternate Language set, Adapter will return error and user's password will not be changed.

(b) If the user's First Name, Middle Initial or Last Name has multiple values (SCSL) and Mail System has value other than "Notes" (Alternate Name and Alternate Language are not specified), re-registration will cause the user's password to be changed successfully, but it will also create a new unwanted person doc on resource. It is highly recommended that re-registration not be done when First Name, Middle Initial and Last name have multiple values (SCSL) and Alternate Name or Alternate Language or Mail system with value other than "Notes" is specified.

## Using Notes Adapter v5.05 Features

### **Support for Multiple Password Certifier Support**

Notes adapter supports multiple password certifier.

Certifier ID file path and multiple passwords should be stored in registry using adapter configuration tool agentcfg.

Example -

Certifier Path	Passwords			
c:\ibm_ouA.id	a) PASSWORD1	b) PASSWORD2	c) PASSWORD3	
c:\ibm_ouB.id	a) PASSWORD4	b) PASSWORD5		
c:\ibm_ouC.id	a) PASSWORD6			
c:\ibm_ouD.id	a) PASSWORD7	b) PASSWORD8	c) PASSWORD9	d)
PASSWORD10	e) PASSWORD11			
c:\ibm_ouE.id	a) PASSWORD12	b)PASSWORD13	c) PASSWORD14	e)
PASSWORD15				

Above ID files and passwords can be stored in registry as shown below:

Registry key 'Specific' is used to store certifier paths.

Registry key	Value
Certification File Location	c:\ibm_ouA.id
Certification File Location_1	c:\ibm_ouB.id
Certification File Location_2	c:\ibm_ouC.id
Certification File Location_3	c:\ibm_ouD.id
Certification File Location_4	c:\ibm_ouE.id

Registry key 'SpecificEx' is used to store encrypted certifier passwords.

Registry key	Value
Certification Password	PASSWORD2
Certification Password#1	PASSWORD1
Certification Password#2	PASSWORD3
Certification Password_1	PASSWORD4
Certification Password_1#1	PASSWORD5
Certification Password_2	PASSWORD6
Certification Password_3	PASSWORD7
Certification Password_3#1	PASSWORD8
Certification Password_3#2	PASSWORD9
Certification Password_3#3	PASSWORD10
Certification Password_3#4	PASSWORD11
Certification Password_4	PASSWORD14
Certification Password_4#1	PASSWORD13
Certification Password_4#2	PASSWORD15

Certification Password\_4#3

PASSWORD12

As shown in above example, passwords for certifier stored in registry key 'Certification File Location', are stored in registry keys Certification Password, Certification Password#1, Certification Password#2. Similarly passwords for certifier stored in registry key 'Certification File Location\_1', are stored in registry keys Certification Password\_1 and Certification Password\_1#1.

Certifier passwords can be stored in any sequence. Example - Passwords of certifiers c:\ibm\_ouA.id and c:\ibm\_ouE.id are stored in random sequence.

Notes :

-----

(1) Ensure that the registry keys Certification File Location and Certification Password exist.

(2) Ensure that the registry key with the preceding number exists.

Example -

If you are adding the registry keys Certification File Location\_2 and Certification Password\_2, then ensure that the registry keys Certification File Location\_1 and Certification Password\_1 exist. Similarly, if you are adding registry key Certification Password\_4#3, then ensure that registry keys Certification Password\_4, Certification Password\_4#1 and Certification Password\_4#2 exist.

Multiple password certification file can be used for following operations:

1. User registration
2. User re-registration
3. AdminP operations - (a) Rename (b) Recertify (c) Move User In Hierarchy (d) Move Complete

1. User registration -

For 'Add User' operation, Certifier Password is optional attribute. If value for this attribute is not specified, adapter reads it from registry. If wrong value is passed from ITIM for attribute 'Certifier Password' and correct passwords are stored in registry key, 'Add user' operation gets executed successfully, even for certifier having single password.

2. User re-registration -

User re-registration should be done with same certification file which is used during user registration or certifier file of parent OU. Certification file can be set by modifying attribute 'Path of Certifier[Absolute path of cert file]' on ITIM, before doing change password operation.

Note - Certification file location will not be saved on resource. Value of attribute 'Path of Certifier[Absolute path of cert file]' will get cleared during reconciliation.

3. AdminP operations -

Multiple Password Certifier IDs can be used for following Adminp operations:

(a) Rename (b) Recertify (c) Move User In Hierarchy (d) Move Complete.

For Adminp operations, following attributes are optional: (a) Original Certifier Password (b) New Certifier Password

If values for these attributes are not specified, adapter reads passwords from registry.

Rename/Recertify/MoveUserInHierarchy Adminp operations can be executed without providing Original Certifier Password and Move Complete Adminp operation can be executed without providing New Certifier Password. If correct passwords are stored in registry key, and wrong certifier password is provided from ITIM, adapter reads passwords from registry and AdminP operation is executed successfully, even for certifier having single password.

Note -

-----

User registration/re-registration/adminp operation fails if passwords are not stored properly in registry.

Example -

a. If incorrect passwords are stored in registry.

Example - certifier ibmouA.id has three passwords as PASSWORD1, PASSWORD2, and PASSWORD3.

Certifier ID file path and passwords are stored in registry as -

Certification File Location	c:\ibm_ouA.id
Certification Password	PASSWORD3
Certification Password#1	PASSWORD4
Certification Password#2	PASSWORD2

In this case operation will fail as value stored in registry key Certification Password#1 is incorrect.

b. If registry key sequence is improper.

Example - If certifier is having four passwords and are stored in registry as - Certification Password, Certification Password#1, Certification Password#3, Certification Password#4

Here registry key Certification Password#2 is missing and Certification Password#4 is not required.

Correct registry key sequence is - Certification Password, Certification Password#1, Certification Password#2, Certification Password#3

c. Extra registry keys are created. Example - certifier ibmouA.id has three passwords as PASSWORD1, PASSWORD2, and PASSWORD3.

Certifier ID file path and passwords are stored in registry as -

Certification File Location	c:\ibm_ouA.id
Certification Password	PASSWORD3
Certification Password#1	PASSWORD1
Certification Password#2	PASSWORD2
Certification Password#3	PASSWORD1
Certification Password#4	PASSWORD3

In this example all passwords stored in registry key are correct, still operation fails when no certifier password is passed from ITIM.

Certification Password#3 and Certification Password#4 should not be added in this case, as certifier is having only 3 passwords.

d. Same password is passed twice, when it is not expected.

Example - certifier ibmouA.id has three passwords as PASSWORD1, PASSWORD2, and PASSWORD3.

Certifier ID file path and passwords are stored in registry as -

Certification File Location	c:\ibm_ouA.id
Certification Password	PASSWORD3
Certification Password#1	PASSWORD1
Certification Password#2	PASSWORD2
Certification Password#3	PASSWORD1

In this case, operation fails as same password PASSWORD1 is received twice.

Same password is accepted again only if certifier has same password for different authorized users.

Registry keys should be in proper sequence and correct passwords should be stored, for successful execution of any operation.

### **Multiple Password Support for Workstation ID**

Notes Adapter and Notes Shadow Adapter supports multiple passwords for Workstation ID file. Workstation ID file path and multiple passwords should be stored in registry using adapter configuration tool agentcfg.

Example -

Workstation ID file Path	Passwords		
c:\admin1.id	a) PASSWORD1	b) PASSWORD2	c) PASSWORD3

Above ID file and passwords can be stored in registry as shown below:

Registry key 'Specific' is used to store Workstation ID file path.

Registry key	Value
-----	
Workstation ID File Location	c:\admin1.id

Registry key 'SpecificEx' is used to store encrypted certifier passwords.

Registry key	Value
-----	
Workstation Password	PASSWORD2
Workstation Password#1	PASSWORD1
Workstation Password#2	PASSWORD3

As shown in the above example, the Workstation ID file is stored in registry key 'Workstation ID File Location'. Passwords for this ID file are stored in registry keys 'Workstation Password', 'Workstation Password#1', 'Workstation Password#2'. Please note that the default key to store Workstation ID password is used to store one password(PASSWORD2) and additional keys are created for remaining passwords. The Workstation ID passwords can be stored in any sequence as shown in example.

Note -

-----  
Ensure that the registry keys used to store all the Workstation ID Passwords are created as mentioned above. If the registry keys are improperly named or incorrect passwords stored then the Adapter operation will fail. Following cases are possible

Example -

a. For multiple password Workstation ID file, even if a single password stored in the registry is incorrect, the Adapter operation will fail. All the passwords required by the Workstation ID must be correctly stored in the registry.

b. The registry keys used to store the passwords must have sequential names as indicated above. If any key is out of sequence, the Adapter will give error that password is incorrect

Example -

Workstation File Location	c:\admin1.id
Workstation Password	PASSWORD1

Workstation Password#1	PASSWORD2
Workstation Password#3	PASSWORD3
Workstation Password#4	PASSWORD4

In the above example, the registry key "Workstation Password#3" is created instead of "Workstation Password#2" In this case, the Adapter will give error of wrong password

c. Same password is passed twice, when it is not expected.

Example - ID file admin1.id has three passwords as PASSWORD1, PASSWORD2 and PASSWORD3.

ID file path and passwords are stored in registry as -

Workstation File Location	c:\admin1.id
Workstation Password	PASSWORD1
Workstation Password#1	PASSWORD1
Workstation Password#2	PASSWORD2
Workstation Password#3	PASSWORD3

In this case, operation fails as same password PASSWORD1 is received twice.

Same password is accepted again only if ID file has same password for different authorized users.

d. The number of passwords stored in the registry must be exactly equal to the number of passwords required by the Workstation ID file. If more than required passwords are stored, Adapter reads required passwords from the top i.e. Workstation Password, Workstation Password#1, Workstation Password#2 and so on. Suppose an Id file requires 5 passwords, the registry contains 8 passwords out of which first 5 are correct and the rest are incorrect. In this case, the Adapter operations will be successful as only the first 5 passwords will be used by the Adapter. If less than the required number of passwords are present then the Adapter will give a wrong password error.

### **Support for Domino Server Name containing Unicode Characters**

The previous versions of Notes Adapter did not support Domino Server name with Unicode characters. From this version, the Adapter supports Unicode Domino Server name. The Unicode Domino Server name must be given on the service form on ITIM. This value must be specified in the new Attribute 'Domino Server Name' on ITIM service form.

Steps to add attribute 'Domino Server Name' on ITIM service form -

- Import new profile on ITIM
- Click on Configuration tab => Form Customization
- Double click on Service => NotesProfile
- Select attribute \$ernotesdominoserver in attribute list and click on 'Add Row' button.
- \$ernotesdominoserver will be added on NotesProfile service form template.
- Click on save template

Notes -

- If no value is given for Domino Server Name on ITIM service form, adapter reads value from registry key.
- If Domino Server Name is given on the ITIM service form and also in adapter registry, value received from ITIM is given preference over registry value.
- If Domino Server Name is not given on ITIM service form and not stored in registry, the Adapter operation fails.

This feature is added to support Domino Server name in non-English language. If Domino Server name is in any other language, its value can be passed from ITIM using service form attribute 'Domino Server Name'.



## ***Using Notes Adapter v5.06 Features***

### **Support for Lotus Domino 8.5**

Notes adapter can now be used with Lotus Domino server 8.5. Currently, additional features of Lotus Domino 8.5 are not supported. This certification implies that the existing features will work with Lotus Domino 8.5. It is recommended to use Lotus Notes Client 8.5 while using Notes Adapter for Lotus Domino 8.5 server

Limitation: Due an API limitation, creation of Roaming users through an Explicit Policy is currently not supported on Lotus Notes 8.5 Client with Notes Adapter. A work around for this is to use the Lotus Notes 8.0 Client. Please note that it required to use Lotus Notes 8.0 Client only when applying a Registration Explicit Policy which enforces creation of Roaming users. For all other cases, it is recommended to use Notes 8.5 Client.

### **Creating Accounts using “Other Internet Mail” Option**

With new version of notes adapter, http password will be set same as ID file password if user is created with mail system 'Other Internet Mail' or 'POP or IMAP', on all supported domino versions.

Adapter behaves in following manner in various configurations -

#### **Configuration I:**

Registry settings -

- a. 'Synchronize HTTPPassword' = FALSE
- b. 'ChangeHTTPPasswordOnly' = FALSE
- c. NoteIDsAddressBook = <no value>

Values passed in ITIM request -

- a. Mail System = 'Other Internet Mail'/'POP or IMAP'
- b. Internet/HTTP Password = <no value>

Adapter Operation - User Registration

New version of notes adapter will set value of HTTP password same as ID file password. In this scenario previous version of notes adapter was not setting any value for HTTP password.

Adapter Operation - Password Change

New version of notes adapter will change password of ID file as well as HTTP password. In this scenario previous version of notes adapter was changing ID file password only.

#### **Configuration II:**

Registry settings -

- a. 'Synchronize HTTPPassword' = FALSE
- b. 'ChangeHTTPPasswordOnly' = TRUE
- c. NoteIDsAddressBook = <no value>

Values passed in ITIM request -

- a. Mail System = 'Other Internet Mail'/'POP or IMAP'
- b. Internet/HTTP Password = <no value>

Adapter Operation - User Registration

New version of notes adapter will set value of HTTP password same as ID file password. In this scenario previous version of notes adapter was not setting any value for HTTP password.

**Adapter Operation - Password Change**

In this scenario, only HTTP password will be changed. ID file password will not be modified. Behavior of previous version of notes adapter was same.

Configuration III:

## Registry settings -

- a. 'Synchronize HTTPPassword' = FALSE

## Values passed in ITIM request -

- a. Mail System = 'Other Internet Mail/' 'POP or IMAP'
- b. Internet/HTTP Password = <no value>
- c. Explicit Policy = <explicit policy name>

## Explicit Policy Settings -

Checkbox 'Set Internet Password' is not set.

**Adapter Operation - User Registration**

New version of notes adapter will set HTTP Password same as ID file password. In this scenario previous version of notes adapter was not setting any value for HTTP password.

Configuration IV:

## Registry settings -

- a. 'Synchronize HTTPPassword' = FALSE

## Values passed in ITIM request -

- a. Mail System = <no value>
- b. Internet/HTTP Password = <no value>
- c. Explicit Policy = <explicit policy name>

## Explicit Policy Settings -

Checkbox 'Set Internet Password' is not set.

Mail System = 'Other Internet Mail/' 'POP or IMAP'

**Adapter Operation - User Registration**

Notes adapter will set HTTP Password same as ID file password. Behavior of previous version of notes adapter was same.

Configuration V:

## Registry settings -

- a. 'Synchronize HTTPPassword' = FALSE

## Values passed in ITIM request -

- a. Mail System = Notes
- b. Internet/HTTP Password = <no value>
- c. Explicit Policy = <explicit policy name>

## Explicit Policy Settings -

Checkbox 'Set Internet Password' is not set.

Mail System = 'Other Internet Mail/' 'POP or IMAP'

**Adapter Operation - User Registration**

Notes adapter will set HTTP Password same as ID file password. Mail System will be set to value passed from ITIM. Behavior of previous version of notes adapter was same.

Configuration for keeping different ID file password and HTTP password :

If customer wants to keep HTTP password different than ID file password in above scenarios then -

Provide value of Internet/HTTP Password from ITIM during user registration.

Modify Internet/HTTP Password after password change (without shadow database) operation (user re-registration).

Note -

New adapter behavior is changed for mail systems 'Other Internet Mail' and 'POP or IMAP' only.

New adapter behavior is not changed, when registry attribute 'Synchronize HTTPPassword' is set to TRUE.

## Using Notes Adapter v5.0.9 Features

### Support for Domino 8.5 ID Vault

The Notes adapter now supports the ID Vault feature of Domino 8.5. The enhancement introduces several changes.

### Attribute for ID file download count

To control number of ID downloads from the vault, extended the Notes adapter schema and added one attribute "erNotesIDdownloadCount" which will hold the value of ID downloads per user.

Below is the account form attribute that will be used in Notes adapter.

Sr. No	Attribute	Attribute OID	Description	Object Class	Reconciled only( R) Add/Mod permitted (W)
1	erNotesIDdownloadCount	1.3.6.1.4.1.6054.3.25.2.151	ID file download count from vault.	erNotesR6Account Class	RW

A new label "ID file download count (from ID vault)" is added for "erNotesIDdownloadCount" attribute in CustomLabels.properties file.

By default this attribute will not be visible on account form, you need to bring this attribute through ITIM form customization on account form.

This attribute will be send from TIM to Notes Adapter in each "password change" and "Restore" operation.

While creating security setting for organizational or explicit policy you need to provide value of "Allow automatic ID downloads" field in the ID Vault tab of the Security Settings document from domino admin UI. The expected value for this field is "YES" or "NO".

For example,

- If you provided value of "Allow automatic ID downloads" to "YES" then domino will allow the ID vault administrator to download ID file for infinite time, though you have given some value for attribute "ID file download count" present on TIM.
- If you provided value of "Allow automatic ID downloads" to "NO" then domino will allow the ID vault administrator to download ID file as per the value of the attribute "ID file download count" present on TIM.

Notes adapter will be setting the value of ID file download count while changing the password only.

### Support for password change operation in the ID vault.

This version of the Notes Adapter will be configurable and it's up to customers if they want to use the ID vault functionality or not.

Customer can also configure ID vault functionality either on whole organization or on specific OU level.

Notes adapter will be supporting both configurations.

Following new registry key added in Notes Adapter registry settings,

#### ❖ IsIDvaultConfigured

The expected value of the registry key "IsIDvaultConfigured" is either "TRUE" or "FALSE" depends on the customer environment.

Before changing password for ID file in ID vault, Adapter will check the domino server version with available registry key,

**❖ Domino Version Number**

ID vault functionality only supported on lotus notes “8.5”. So, if value of registry key “**IsIDVaultConfigured**” is “TRUE” (It means customer has configured and using ID vault feature) then expected value of the registry key “**Domino Version Number**” should be “8.5”.

For example,

- If value of the registry key “**IsIDVaultConfigured**” is “TRUE” and the value of the registry key “**Domino Version Number**” is 8.5 then adapter will be able to change password of users ID file vaulted under ID vault.
- If value of the registry key “**IsIDVaultConfigured**” is “TRUE” and value of the registry key “**Domino Version Number**” is less than 8.5 then change password operation will be terminated and failure will be returned to ITIM.
- If value of the registry key “**IsIDVaultConfigured**” is FALSE (It means customer is not using ID vault feature or customer is using domino sever older than 8.5) then old code flow will be executed.

**Limitations of Notes Adapter on ID vault feature:**

1. Assignment of explicit policy with ID vault security setting is not supported with Notes adapter for ID vault; adapter will be supporting assignment of explicit policy with registration settings only.
2. Notes adapter only supporting the “Reset Password” feature of ID vault, other features like “Extract ID from vault” will not be supported that you have to do from Lotus admin client manually.

## Using Notes Adapter v5.0.13 Features

### **MR0702092650 - Create new Notes Adapter DeleteGroup**

Notes Adapter will be able to preserve the parent child relationship of the newly added Delete Groups.

In the following cases, the assignment of Delete Groups to the set of parents will take place:

1. On every full reconciliation operation and the first request after the Notes Adapter is started:
  - Notes Adapter will search for all the delete groups present on domino server. (Provided registry key "Delete Group" is not blank)
  - If more than one delete groups are present on the Domino server, then Notes Adapter will go through each delete group and will create a single set of parents. This set of parents will be the union of the parents of each of the preexisting delete groups.

**For Example:** If domino server has three delete groups say DeleteGroup1, DeleteGroup2, and DeleteGroup3. DeleteGroup1 has two parents say P1A, P1B. DeleteGroup2 has a parent say P2A, and Deletegroup3 has no parent. Then Adapter will go through each of the delete groups and will create a set of parent's [P1A, P1B, P2A].

Then, each of these parents from the set will be added to the list of parents of each of the existing delete group if not present already.

Please see below table for the reference,

Group Name	Old set of parents	New Set of Parents
DeleteGroup1	P1A, P1B	P2A, P1A, P1B
DeleteGroup2	P2A	P2A, P1A, P1B
DeleteGroup3	----	P2A, P1A, P1B

2. If first delete group is full and adapter created new delete group.
  - On domino server each group has certain limit to store the members and if this capacity exceeds then Notes Adapter by default creates a new group.
  - When a delete group goes full adapter creates new a delete group and the parent of this new delete group will be union of parents of all the existing delete groups.

**For Example:** From the above table, considering that "DeleteGroup2" is full and adapter creates the new delete group "DeleteGroup3". Notes adapter will fetch the parents from the existing delete group and assigns the "DeleteGroup3" to the members of each of these parents.

## ***Correction to the User Guide***

### **Using a Notes User Document attribute as CustomEruid**

The attribute chosen to be used as CustomEruid should conform to following constraints:

- It should be readable and writable (Modifiable attribute on Notes User Document).
- It should **not** be a part of existing adapter schema.
- It should **not** be used for any other purposes other than storing the Eruid (User id).
- It should contain a unique value.

Note:

1. *If the default value of attribute is empty, then it must be filled with a unique value before performing reconciliation operation.*
2. *If there is no such attribute in person document that satisfies the above mentioned constraints, then, a new attribute satisfying the above constraints can be introduced in person document with the help of a Domino Designer Expert.*

If the attribute chosen conforms to the above constraints then, follow the below steps:

1. Add the attribute's name to the registry key "CustomEruid".
2. Add the attribute in the list of custom attributes in the file CustomAttributes.xml, located at "<NotesAgent\_Installation\_Home>\data" directory.

### **Reconciliation of user ID (ERUID)**

**Location:** Under the section "**Reconciliation of user ID (ERUID)**" of Chapter 4; Page 17, Example 3.

**New Content:**

**Example 3: Using custom Notes field of the person document for user ID**

You can use the "CustomEruid" registry key to specify the remote name of the attribute that contains the user ID. To determine which attributes can be used as CustomEruid, refer to the section "**Using a Notes User Document attribute as CustomEruid**". This section explains what constraints should be taken into consideration, while choosing an attribute to use it as CustomEruid.

Let's assume there is an attribute CustomField present on the Notes User Document which conforms to the constraints to be used as CustomEruid. Also, it contains some unique value and can be used as CustomEruid. Now, to use this attribute CustomField as CustomEruid, follow the below steps:

1. Add the attribute's name (here CustomField), to the registry key "CustomEruid".
2. Add the attribute in the list of custom attributes in the file CustomAttributes.xml, located at "<NotesAgent\_Installation\_Home>\data" directory.
3. The value of the registry keys "Use ShortName", "Use ITIM\_ERUID" and "Store ERUID in FullName" must be set to FALSE.

Assume that a user account with the name Nancy Taylor already exists on the Lotus Domino server with the following values in its person document.

First name: Nancy  
Last name: Taylor  
User name: Nancy Taylor/IBM  
Nancy Taylor  
NTaylor  
CustomField: NTaylor

After the reconciliation operation is performed, the value of the CustomField attribute of the person document is returned to Tivoli Identity Manager as the User ID attribute:

User ID: NTaylor  
First Name: Nancy  
Last Name: Taylor  
Full Name: Nancy Taylor/IBM  
Nancy Taylor  
NTaylor  
CustomField: NTaylor

### **Reconciliation of explicit policies**

**Location:** Under the section “**Reconciling user accounts**” of Chapter 4;  
Page 20, Sub-Section “**Reconciliation of explicit policies**”

**New content:**

**Note:** The adapter supports reconciliation of explicit policy for the Lotus Domino server version 8.0 or later.

### **Using custom Notes field of person document for storing the user ID**

**Location:** Under the section “**Adding user accounts**” of Chapter 4;  
Page 22, Example 3.

**New Content:**

**Example 3: Using custom Notes field of person document for storing the user ID**

You can use the “CustomEruid” registry key to specify the remote name of the attribute that you want to use for storing the user ID. Let’s assume there is an attribute **CustomField** present on the Notes User Document which conforms to the constraints to be used as CustomEruid. Now, to use this attribute CustomField as CustomEruid, follow the below steps:

1. Add the attribute’s name (here CustomField), to the registry key “CustomEruid”.
2. Add the attribute in the list of custom attributes in the file CustomAttributes.xml, located at “<NotesAgent\_Installation\_Home>\data” directory.
3. The value of the registry keys “Use ShortName” must be FALSE
4. “Use ITIM\_ERUID” and “Store ERUID in FullName” can be set to TRUE or FALSE.

In the following example, the value of the registry key “Store ERUID in FullName” is TRUE.

Let’s say we fired an ADD request from ITIM, with below parameters:



User ID: NTaylor  
 First Name: Nancy  
 Last Name: Taylor  
 Full Name: Nancy Taylor/IBM  
               Nancy Taylor  
 Short Name/User ID: Nan

After the add operation is performed, the value of the User ID attribute on Tivoli Identity Manager is added to the CustomField and User name fields of the person document:

First name: Nancy  
 Last name: Taylor  
 User name: Nancy Taylor/IBM  
               Nancy Taylor  
               NTaylor  
 Short name/UserID: Nan  
 CustomField: NTaylor

Note: To determine which attributes can be used as CustomEruid, refer to the section **“Using a Notes User Document attribute as CustomEruid”**.

### **Adding user accounts with CustomEruid**

**Location:** Under the section **“Adding user accounts”** of Chapter 4;  
Page 23, 3<sup>rd</sup> Point below the label “If you:”

#### **Original Content:**

If you:

- Set the value of the registry key “CustomEruid” to Owner and that of the “Use ShortName” registry key to FALSE.

Result: After the add operation, the value of the User ID attribute on Tivoli Identity Manager is added to the User name and Owners fields of the person document. The field ITIM\_ERUID is created in the person document with the value from the User ID attribute on Tivoli Identity Manager.

#### **New Content:**

If you:

- Let’s assume there is an attribute CustomField, which is a valid attribute to be used as CustomEruid. Set the value of the registry key “CustomEruid” to CustomField and that of the “Use ShortName” registry key to FALSE.

Result: After the add operation, the value of the User ID attribute on Tivoli Identity Manager is added to the User name and CustomField attributes of the person document. The field ITIM\_ERUID is created in the person document with the value from the User ID attribute on Tivoli Identity Manager.

### **ERUID storage in the Notes fields during add operation**

**Location:** Under the section **“Adding user accounts”** of Chapter 4;  
Page 25, “Table 5. ERUID storage in the Notes fields during add operation”

In the table, remove all occurrences of “(for example, **Owners**)” in the column with “CustomEruid”.

**Adding user accounts with an explicit policy**

**Location:** Under the section “**Adding user accounts**” of Chapter 4;

Page 37, sub-section “**Adding user accounts with an explicit policy**”

**New Content:**

Explicit policy support through the Lotus Notes Adapter is available only for Lotus Domino server version 8.0 or later.

**Adding user accounts**

**Location:** Under the section “**Adding user accounts**” of Chapter 4;  
Page 39, Example 3

**New Content:****Example 3:**

In this example, the value of the “Use ShortName” registry key is FALSE and the value of the registry key “Store ERUID in FullName” is TRUE.

Let’s assume there is an attribute **CustomField** present on the Notes User Document which conforms to the constraints to be used as CustomEruid. The value of the “CustomEruid” registry key is set to CustomField.

A user account with the name Nancy Taylor already exists on the Lotus Domino server with the following values in its person document.

First name:	Nancy
Last name:	Taylor
User name:	Nancy Taylor/IBM Nancy Taylor1 Nancy Taylor2 Nancy Taylor3 NTaylor
Short name/UserID:	NTaylor

If you modify the User ID attribute on Tivoli Identity Manager from NTaylor to NTaylor1, the last value of the User name field and the value of the CustomField field of the person document changes to NTaylor1.

Note: To determine which attributes can be used as “CustomEruid”, refer to the section “**Using a Notes User Document attribute as CustomEruid**”.

**Modifying roaming attributes of a user**

**Location:** Under the section “**Modifying roaming attributes of a user**” of Chapter 4;  
Page 44

**New content:**

The Lotus Notes Adapter supports modification of roaming attributes of a user from Tivoli Identity Manager only for the Lotus Domino server version 8.0 or later.

**Reason:** 6.5 and 7.x versions are out of support and the contents are not applicable.

**Errors during the add operation**

**Location:** Under the section “**Errors during the add operation**” of Chapter 9;  
Page 94

**Remove the following rows from the table**

Errors during the add operation		
Error message	Possible cause	Recommended solution
Addition of Roaming User is not supported for Domino Server Version 6. But you can upgrade a non-roaming user to roaming user.	This error occurs when you attempt to add a user with a roaming access to the Lotus Domino server version 6.0. The Lotus Notes Adapter supports creation of roaming users from Tivoli Identity Manager only for the Lotus Domino server version 7 or later.	For the Lotus Domino server version 6.0, add a user from Tivoli Identity Manager, and upgrade the user from a non-roaming user to a roaming user.
Roaming User feature is not supported for Domino Server Version 5	This error occurs when you attempt to: <ul style="list-style-type: none"> <li>• Add a roaming user to the Lotus Domino server version 5.0.</li> <li>• Upgrade a user from a non-roaming user to a roaming user on the Lotus Domino server version 5.0.</li> </ul>	If you want to add a roaming user to the Lotus Domino server, then use the Lotus Domino server version 7.0 or later. If you want to upgrade a user from a non-roaming user to a roaming user, then use the Lotus Domino server version 6.0 or later.

**Reason:** 6.5 and 7.x versions are out of support and the contents are not applicable.

**Additional errors during the add operation**

**Location:** Under the section “**Errors during the add operation**” of Chapter 9;  
Page 94 & 95

**New content:**

Errors during the add operation		
Error message	Possible cause	Recommended solution
'Lotus iNotes/Domino CAL' value cannot be specified for a Roaming user account. Roaming user must have an ID file.	This error occurs when a user has roaming access and the value of the <b>Client License</b> attribute for a roaming user is specified as	Make sure that you do not specify roaming attributes for a Web client user.

	Lotus iNotes/Domino CAL. In this case, the user that is created on the Lotus Domino server becomes a Web client user. A Web client user cannot have roaming access because a Web client user does not possess an ID file.	
Assigned Policy is supported for Domino Server Version 8 and above.	This error occurs when you specify an explicit policy for the Lotus Domino server version 6.0 or earlier.	Use the Lotus Domino server version 7.0 or later for adding user accounts with an explicit policy.

**Reason:** 6.5 and 7.x versions are out of support and the contents are not applicable.

## Customizing or Extending Adapter Features

The Identity Manager adapters can be customized and/or extended. The type and method of this customization may vary from adapter to adapter.

### ***Getting Started***

Customizing and extending adapters requires a number of additional skills. The developer must be familiar with the following concepts and skills prior to beginning the modifications:

- LDAP schema management
- Working knowledge of scripting language appropriate for the installation platform
- Working knowledge of LDAP object classes and attributes
- Working knowledge of XML document structure

**Note:** This adapter supports customization only through the use of pre-Exec and post-Exec scripting.

Tivoli Identity Manager Resources:

Check the “Learn” section of the [Tivoli Identity Manager Support web site](#) for links to training, publications, and demos.

### ***Support for Customized Adapters***

The integration to the Identity Manager server – the adapter framework – is supported. However, IBM does not support the customizations, scripts, or other modifications. If you experience a problem with a customized adapter, IBM Support may require the problem to be demonstrated on the GA version of the adapter before a PMR is opened.

## Supported Configurations

### ***Installation Platform***

The IBM Tivoli Identity Manager Adapter was built and tested on the following product versions.

#### Adapter Installation Platform:

- Windows 2003 Standard Edition 32-bit OS on x86 compatible CPU
- Windows 2003 Enterprise Edition 32-bit OS on x86 compatible CPU
- Windows 2008 Enterprise Edition 64-bit OS on x86 compatible CPU
- Windows 2008 R2 Enterprise Edition 64-bit OS on x86 compatible CPU
- Windows Vista
- Windows 7

#### Managed Resource:

- Domino R8.0 with optional Sametime v8.0
- Domino R8.5.0 with optional Sametime v8.0
- Domino R8.5.1 with optional Sametime v8.0
- Domino R8.5.2 with optional Sametime v8.0
- Domino R8.5.3 with optional Sametime v8.0

-- with --

- Lotus Notes Client software version R8.5.0
- Lotus Notes Client software version R8.5.2
- Lotus Notes Client software version R8.5.3

#### IBM Tivoli Identity Manager:

- Identity Manager v5.0

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