

Lotus Domino Roaming

in Lotus Notes 8.5.x

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The presentation is based on 8.5.3 Code Drop 5

Many thanks to Jeff Mitchell & Maria Corbett!

Agenda

- Introduction
- Notes/Domino Roaming
- Roaming for new users
- Roaming for existing users
- Creating Roaming Users programmatically
- Client details
- Troubleshooting
- Alternatives
- Q&A

Agenda

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Introduction

Business need:

- A user should be able to use different computers with Lotus Notes installed, but with (nearly) identical Notes workspace/client environment.
- BlackBerry user want their ID and contacts

Possible solutions:

- Roaming (Notes/Domino, OS-based)
- File server based Notes data directory
- Citrix XenApp/Terminal Services servers
- Virtual Desktop Infrastructure
- Exclusive Laptop usage

This session is about the means IBM Lotus Notes/Domino 8.5.x is offering!

Introduction

Roaming in IBM Lotus Notes/Domino

- Introduced in Notes/Domino 6.0.1
- 7.0: the user.id could be roamed in the PAB
- 8.0: Notes Basic client Roaming only
- 8.0.1: Standard client Roaming, but no roaming of RCP settings
- 8.5
 - File Server based Roaming for 32-Bit Windows clients
 - Roaming of RCP settings
- 8.5.1
 - File Server based Roaming for Mac OS and Linux
 - Roaming support for Citrix XenApp
 - Workspace-Roaming
- 8.5.2: Enable/Disable Roaming on the fly
- 8.5.3: DetachID utility and JavaAgentForDetachid Agent

Domino based vs. Files server based roaming

Domino based Roaming:

- Available in all versions since 6.0.1
- Roaming client databases are located on Domino servers
- Both, Basic and Standard clients are supported
- Managed by using Lotus Domino Administrator tools
- Heavily depends on AdminP and replication

Domino based vs. Files server based roaming

File server based Roaming

- Introduced in Notes/Domino 8.5 (for windows only)
- Starting with 8.5.1, Mac & Linux clients are supported
- Roaming client databases (encrypted) are located on a file servers
- Standard client only
- Managed by Roaming settings document
- Primary use case: locations without a local Domino server, but local file servers

Supported configurations

Supported

- Single & Multi User clients (Standard client starting with 8.5.1)
- Citrix XenApp is supported (Standard client starting with 8.5.1)
- ID Vault is supported
- Notes Single Logon is supported as long as the user id does not roam and is available locally when Notes is started (for all 8.5.x releases)
- Switching IDs is supported starting with 8.5.1, but not recommended

Supported configurations – Restrictions

But:

- Notes Shared Login is not supported
- Not all RCP-settings are roaming
- Not all notes.ini settings are roaming
- Widgets/Plugins/Dictionaries are not roaming (but are provisioned)
- Designer and Admin client specific settings are not roaming
- Enabling/Disabling Roaming on the fly is not supported for file server based roaming

Roaming activation for new vs. existing users

New Users:

- Technically, only available for Domino based roaming
- Roaming can be applied when a new user is created (Registration dialogs, Registration policy)
- Roaming databases are created on the Domino server(s) first
- Roaming databases will be replicated to the client during client setup
- Managed using Lotus Domino Administrator tools
- LotusScript/Java class (NotesRegistration/Registration) available

Roaming activation for new vs. existing users

Existing users

- Roaming can be applied to existing users
- Roaming databases are created/replicated from the Notes client to the server
- No LotusScript/Java class support

A Roaming policy is always applied to a user during/after Notes client setup, so technically, it is always applied to existing users!

Access rights

- Administrators:
 - Domino Directory (names.nsf)
 - Author + [UserModifier] or Author + Listed in Administrator field of Person document or Editor access
 - Administration requests (admin4.nsf)
 - No access to admin4.nsf is needed if Administrator client is used!
 - Editor access to admin4.nsf is needed if AdminP requests are created programmatically
 - Roaming server(s)
 - Database administrator on primary Roaming server,
 - at least Create new replicas on Roaming Replica servers

Access rights

- Users:
 - Domino Directory (names.nsf)
 - Reader access to Domino Directory
 - Administration requests (admin4.nsf)
 - No access to admin4.nsf is needed
 - Roaming server(s)
 - Access server granted
 - Roaming Databases (on Roaming server(s))
 - Roaming servers need access (by default LocalDomainServers)
 - Manager access and no consistent ACL and no encryption
 - Unique replica ID for every single database
- Roaming Servers:
 - Create new replicas on Roaming servers
 - Databases should be latest ODS (ODS51)

Person documents

- Fullname
- Shortname
- Mail server
- Mail file
- Certificate (must match current ID public key)

must be populated appropriately and with proper syntax to avoid problems with **AdminP** and **Policies**!

Location Documents

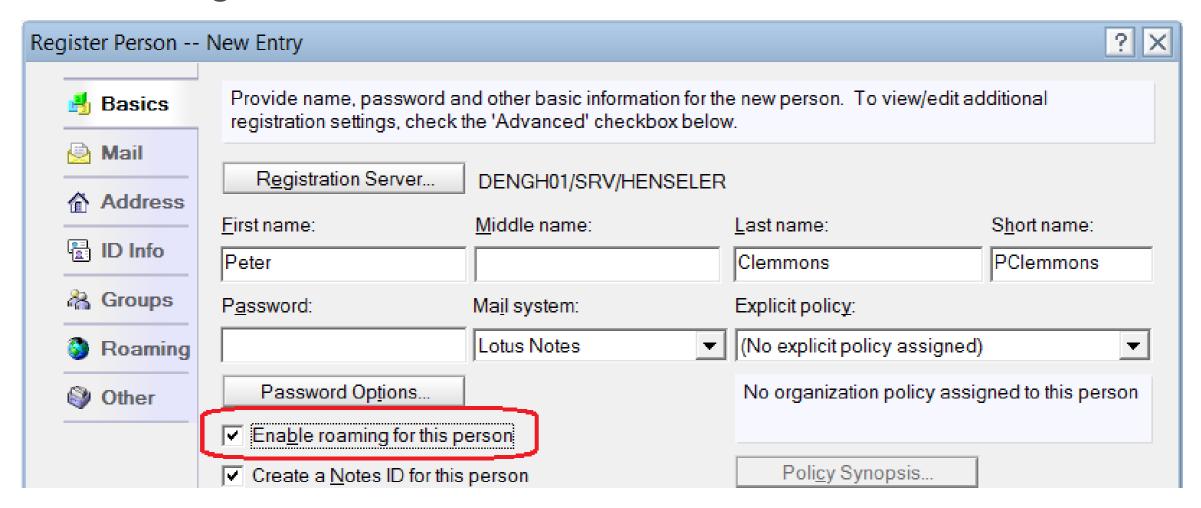
- Home/mail server must be populated appropriately and with proper syntax to avoid problems with AdminP and Policies!
- Location type must be network connected (Local Area Network)

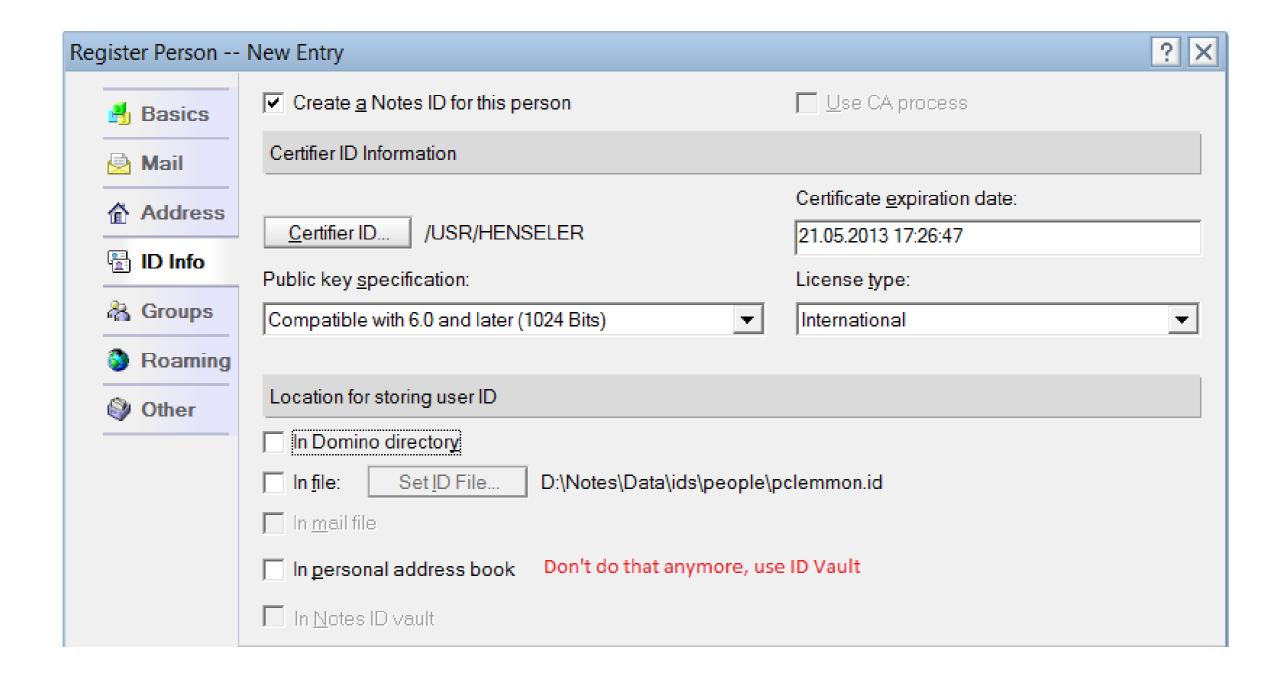
Roaming Servers

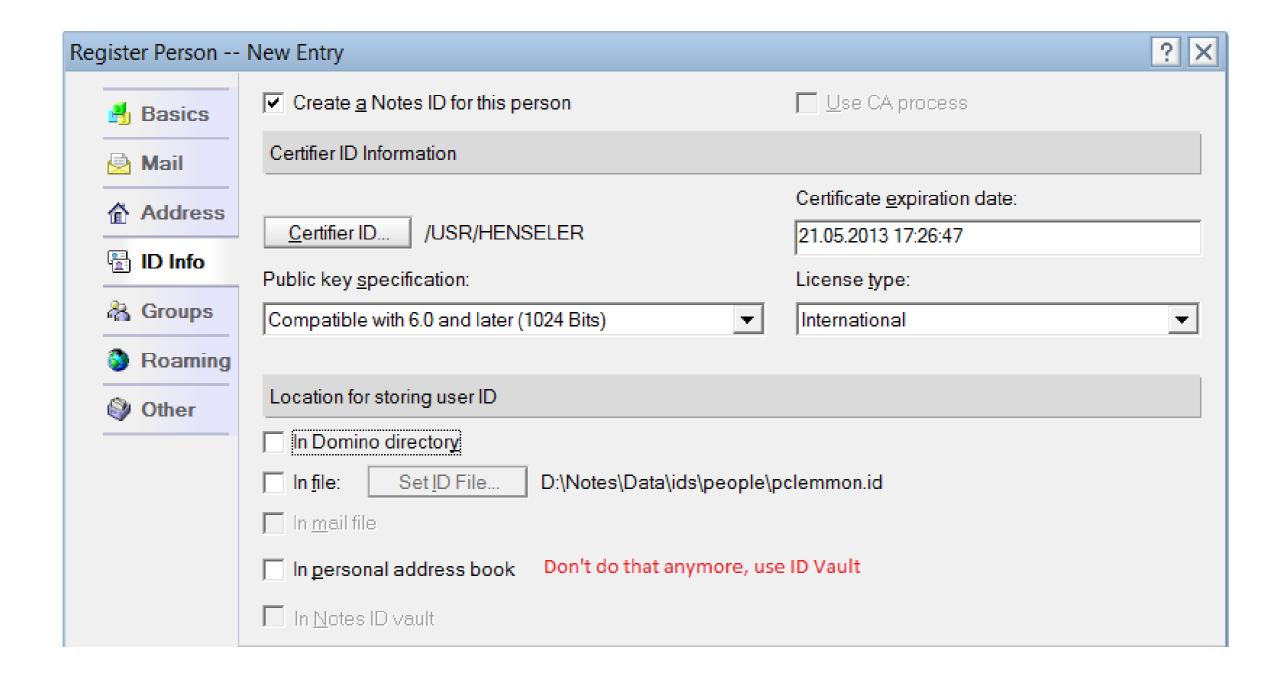
- Additional diskspace required on servers
- ~30 MB (without Desktop roaming)
- 50 150 MB (you may have a 100 MB bookmark.nsf when the desktop is migrated into bookmark.nsf)

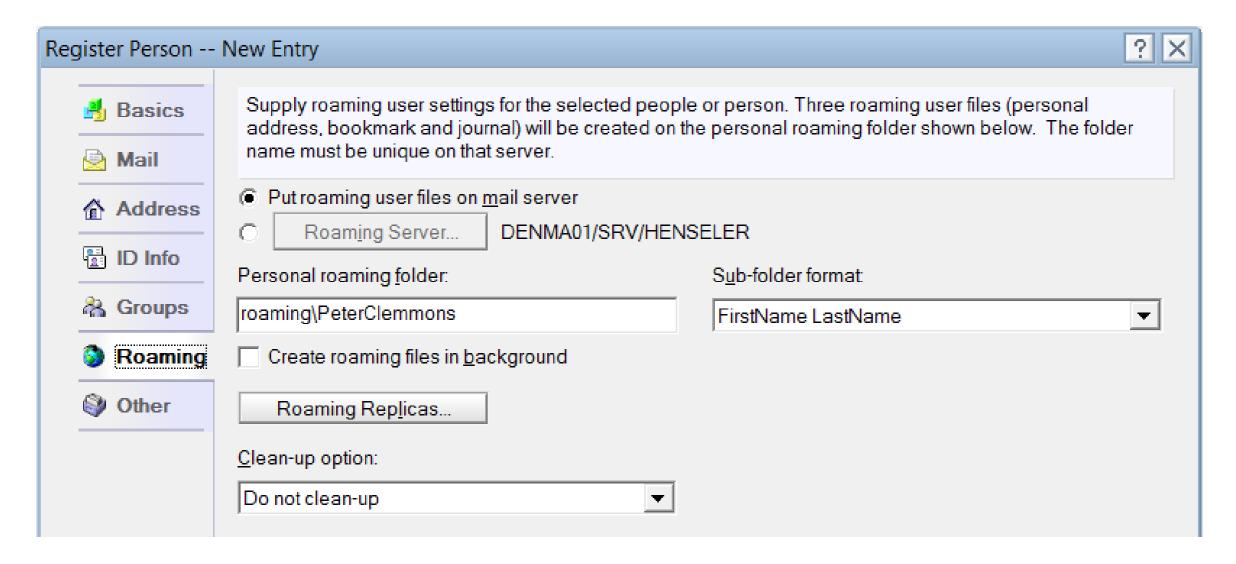
Networking

- Roaming servers must be available via
- DNS
- Port 1352 (Domino based Roaming)
- CIFS (Files server based roaming)
- Increased replication traffic

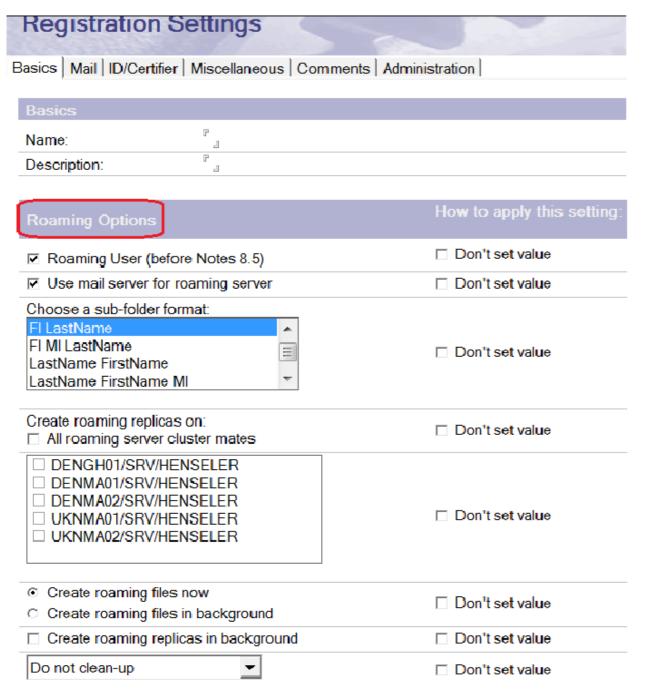






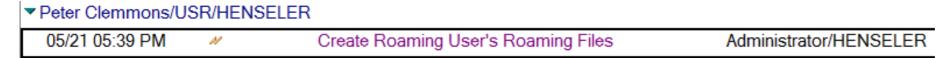


A **Registration settings** document can be used to pre-configure Roaming settings for new users:

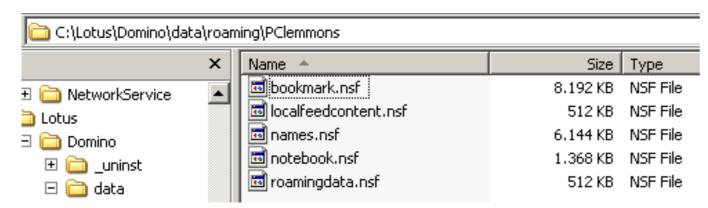




If background creation was selected, an AdminP request will be created on the Registration server that must be processed by the Roaming server:



The Roaming databases will be created on the Roaming server. as long as the templates (language!) do exist on the Roaming server:



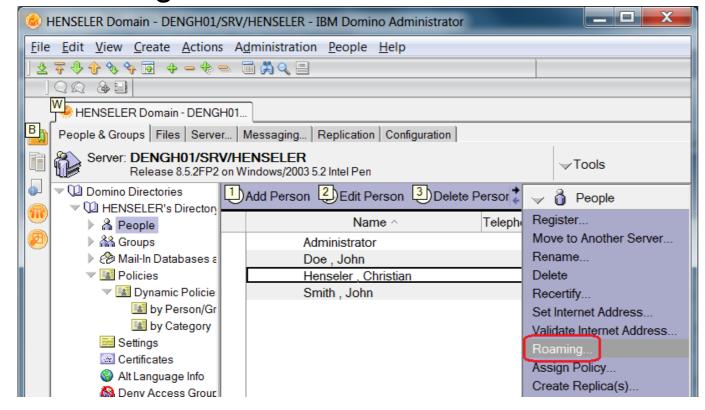
- Bookmark.ntf
- Feedcontent.ntf
- Notebook8.ntf
- Pernames.ntf
- Roamingdata.ntf

The replicas on the Roaming replica server are created subsequently:

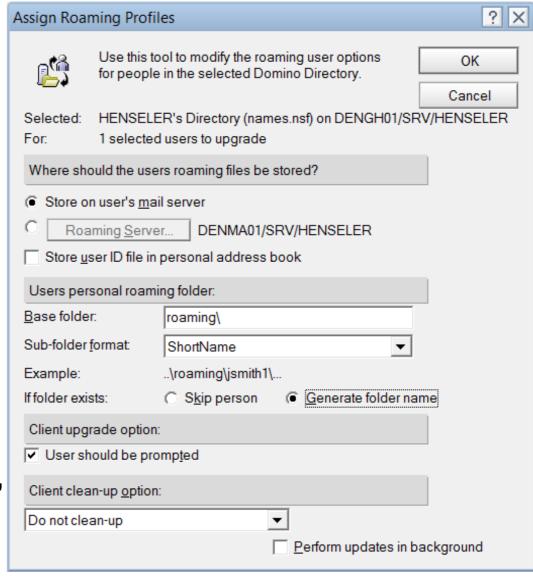


Roaming activation for Domino based Roaming

Lotus Domino Administrator is used to assign Domino based roaming to existing users:



- Do not use Store user ID file in personal address book, if ID Vault is available
- I prefer Skip person
- User should be prompted is dangerous in my point of view
- I've never used Client clean-up option
- If Perform updates in background is actived, DBs are created using AdminP and server based templates



Why does your replication schedule matter

Assume a Replication schedule of 30 Minutes for admin4.nsf and names.nsf: Domino based Roaming activation for an existing user

Proxy Action	Placed on	Processed by	Must be replicated to	Time
Update Roaming User State in Person Record	Admin Server	Admin Server	Home/Mail-Server	30 Min
Create Roaming User's Replica Stubs	Admin Server (Direct deposit)	Roaming Server	Roaming Server	30 Min
Update Roaming User State in Person Record	Roaming Server	Admin Server	Admin Server	30 Min
Monitor Roaming User's Replica Stubs	Roaming Server (Direct deposit)	Roaming Server	-	-
Check Access for New Replica Creation	Roaming Server	Roaming Server	-	-
Accelerated Create Replica	Roaming Server	Roaming Server	-	-
Update Roaming User State in Person Record	Roaming Server	Admin Server	Admin Server & Home/Mail-Server	2* 30 Min
			Total:	150 Min

Roaming activation for File Server Roaming

A Roaming Settings document is used to assign Files server based roaming to existing users:

Roaming Settin	gs : UKLON-Roaming		22		10
Basics Comments Admin					
,					
Basics					
Name:	UKLON-Roaming				
Description:	File server roaming for site London				
File Server		How to apply th	is setting:	Inherit from	Enforce in
Roaming Options				parent policy:	child policies:
Server name:	\\192.168.179.141\FSRoam\$	Don't set value		☐ Inherit	☐ Enforce
Base folder:	roaming\	□ Don't set value		☐ Inherit	☐ Enforce
Sub-folder format:	Shortname	□ Don't set value		☐ Inherit	☐ Enforce
Example:	\roaming\tamado\				
Files that roam:	bookmark.nsf, roamingdata.nsf, notebook.nsf, names.nsf, localfeedcontent.nsf	☐ Don't set value		☐ Inherit	☐ Enforce
Show roaming setup dialogs:	Yes	☐ Don't set value		☐ Inherit	☐ Enforce
Modifiable text for the first dialog:	Your Lotus Notes administrator has made you a "roaming user" so that you can get all of your Notes data on different computers. You can continue to do your work and monitor the progress on the Replication tab.	☐ Don't set value		□ Inherit	☐ Enforce
Text for the "Roaming complete" dialog:	The roaming user setup process is complete on this computer. Your Lotus Notes data will be the same or any computer.			□ Inherit	☐ Enforce
Data removal on local drives:	Do not remove data ▼	☐ Don't set value		☐ Inherit	☐ Enforce
Allow user to temporarily disable roaming:	No	☐ Don't set value		☐ Inherit	☐ Enforce

Programming for Roaming users

There are some Lotuscript/Java methods to manage Roaming users programmatically, but functionality is pretty limited or for new users only.

LotusScript NotesRegistration class

- IsRoamingUser
- RoamingServer
- RoamingSubDir
- RoamingCleanupSettings
- RoamingCleanupPeriod
- StoreIDinAddressBook

LotusScript NotesAdministrationProcess class

MoveRoamingUser

Programming for Roaming users

To **enable** Roaming user for existing users, you can create an appropriate AdminP request document in the admin4.nsf

Feld	Тур	Inhalt	Feld-Flags
\$OnBehalfOf	Text	Kanonischer Name des ausführenden Administrators	SIGN, SUMMARY, READ/WRITE-ACCESS
Fullname	Text	Kanonischer Name des ausführenden Administrators	SIGN, SUMMARY, READ/WRITE-ACCESS
ProxyOriginatingAuthor	Text	Kanonischer Name des ausführenden Administrators	SIGN, SUMMARY, READ/WRITE-ACCESS
ProxyAuthor	Text	Kanonischer Name des ausführenden Administrators	SIGN, SUMMARY, PROTECTED
Form	Text	AdminRequest	SUMMARY, PROTECTED
Туре	Text	AdminRequest	SUMMARY, PROTECTED
ProxyProcess	Text	Adminp	SIGN, SUMMARY, PROTECTED
ProxyAction	Text	133	SIGN, SUMMARY, PROTECTED
ProxyRoamingCleanup	Text	0	SIGN, SUMMARY, PROTECTED
ProxyRoamingClientPrompt	Text	1	SIGN, SUMMARY, PROTECTED
ProxyRoamingIdInNab	Text	0	SIGN, SUMMARY, PROTECTED
ProxyRoamingMode	Text	0	SIGN, SUMMARY, PROTECTED
ProxyRoamingSetting	Text	0	SIGN, SUMMARY, PROTECTED
ProxyRoamingStateChange	Text	2	SIGN, SUMMARY, PROTECTED
ProxyServer	Text	*	SIGN, SUMMARY, PROTECTED
ProxyOriginatingRequest UNID	Antwort referenz liste	UniversalID des erzeugten AdminP-Requests	SUMMARY
ProxyNameList	Text	Kanonischer Names des Roaming-Benutzers	SIGN, SUMMARY, PROTECTED
ProxyRoamingDatabasePath	Text	Pfad der Roaming-DBs	SIGN, SUMMARY, PROTECTED
ProxyRoamingServer	Text	Kanonischer Name des Roaming-Servers	SIGN, SUMMARY, PROTECTED
ProxyRoamingReplicaServers	Text	Kanonischer Name des Roaming Replica Servers	SIGN, SUMMARY, PROTECTED
ProxyOriginatingTimeDate	Datum/ Zeit	Zeit der Dokument-Erstellung	SIGN, SUMMARY
ProxyOriginatingOrganization	Text	Die Organisations-Zulassungsstelle des Benutzers	SIGN, SUMMARY, READ/WRITE-ACCESS

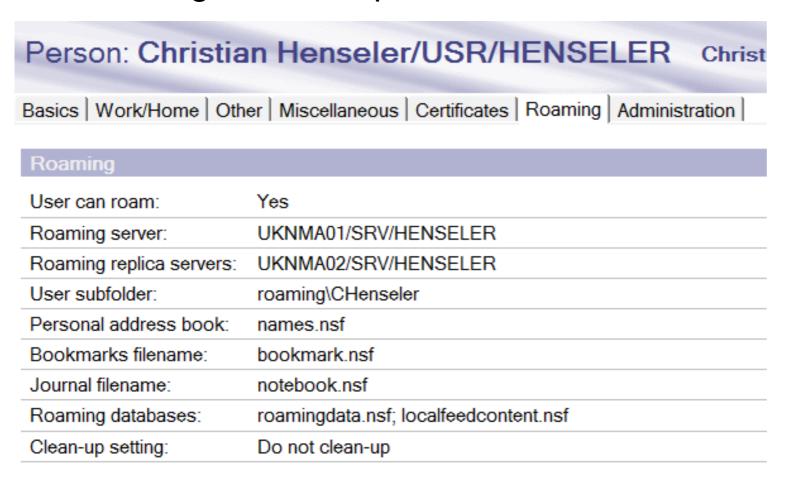
Programming for Roaming users

To **disable** Roaming user for existing users, you can create an appropriate AdminP request document in the admin4.nsf

Feld	Тур	Inhalt	IsSigned
\$OnBehalfOf	Text	Kanonischer Name des ausführenden Administrators	SIGN, SUMMARY, READ/WRITE-ACCESS
Fullname	Text	Kanonischer Name des ausführenden Administrators	SIGN, SUMMARY, READ/WRITE-ACCESS
ProxyOriginatingAuthor	Text	Kanonischer Name des ausführenden Administrators	SIGN, SUMMARY, READ/WRITE-ACCESS
ProxyAuthor	Text	Kanonischer Name des ausführenden Administrators	SIGN, SUMMARY, PROTECTED
Form	Text	AdminRequest	SUMMARY, PROTECTED
Туре	Text	AdminRequest	SUMMARY, PROTECTED
ProxyProcess	Text	Adminp	SIGN, SUMMARY, PROTECTED
ProxyAction	Text	133	SIGN, SUMMARY, PROTECTED
ProxyBypassDeleteApproval	Text	1	SIGN, SUMMARY, PROTECTED
ProxyRoamingStateChange	Text	0	SIGN, SUMMARY, PROTECTED
ProxyServer	Text	*	SIGN, SUMMARY, PROTECTED
ProxyOriginatingRequest UNID	Antwort referenz liste	UniversalID des erzeugten AdminP-Requests	SUMMARY
ProxyNameList	Text	Kanonischer Names des Roaming-Benutzers	SIGN, SUMMARY, PROTECTED
ProxyRoamingDatabasePath	Text	Pfad der Roaming-DBs	SIGN, SUMMARY, PROTECTED
ProxyRoamingServer	Text	Kanonischer Name des Roaming-Servers	SIGN, SUMMARY, PROTECTED
ProxyOriginatingTimeDate	Datum/ Zeit	Zeit der Dokument-Erstellung	SIGN, SUMMARY
ProxyOriginatingOrganization	Text	Die Organisations-Zulassungsstelle des Benutzers	SIGN, SUMMARY, READ/WRITE-ACCESS

What happens in the person document

The roaming tab of the person document is filled:

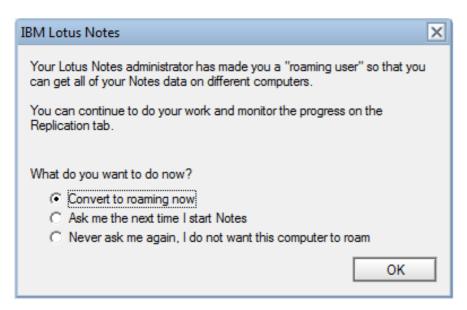


In the people view, Roaming user can be identified by two special icons:

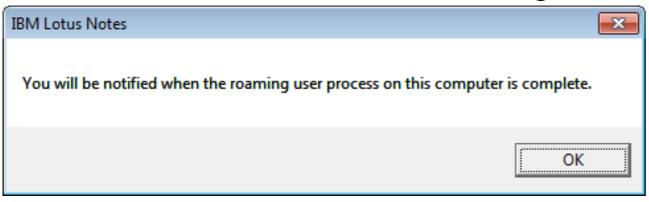
X	Henseler , Christian	Roaming in progress (Hour glass)
•	Henseler , Christian	Roaming user activated (Globe)

What's happening on the client side?

If the user is prompted, the following dialogs will appear:

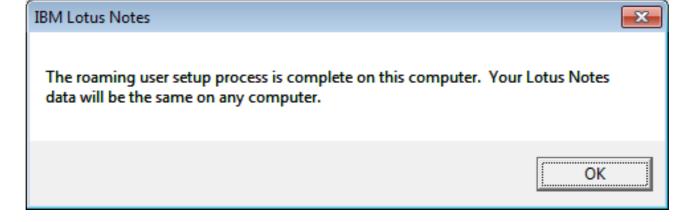


This will create the Create Roaming User's Replica stubs AdminP request!



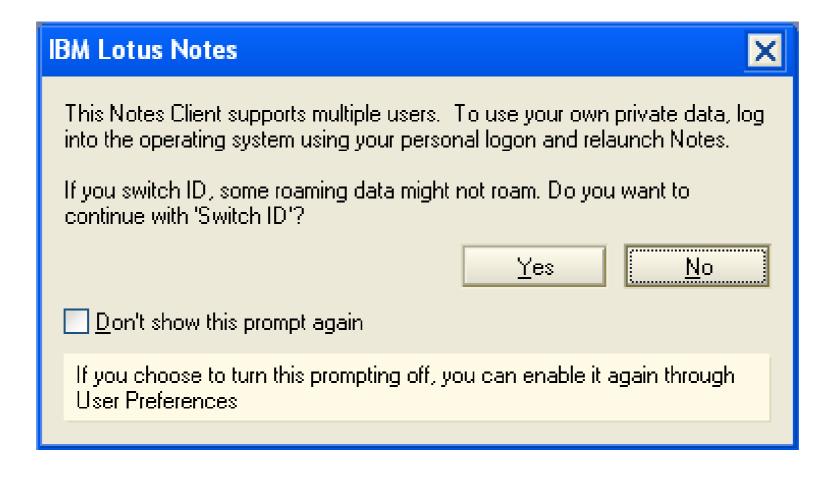
When the last *Update Roaming User state in Person record* AdminP request was precessed by the Administration server of the Domino Directory and replicated back to

the Home/Mail-Server



What's happening on the client side?

When a roaming user is switching ID:



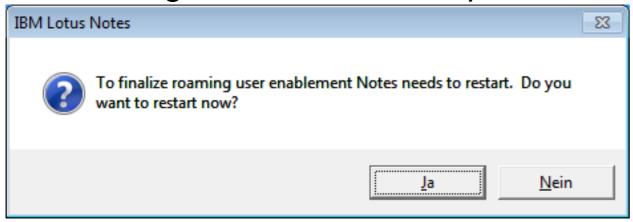
Although supported starting in 8.5.1, it is not recommended!

Switching IDs will mess up your client configuration!

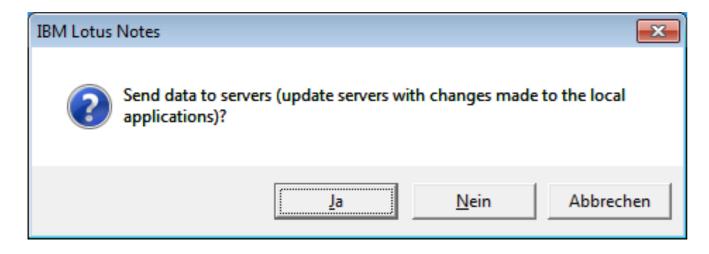
- ACL of databases may prohibit proper replication
- Mixture of policy & notes.ini settings

What's happening on the client side?

No, the migration of the workspace takes place:



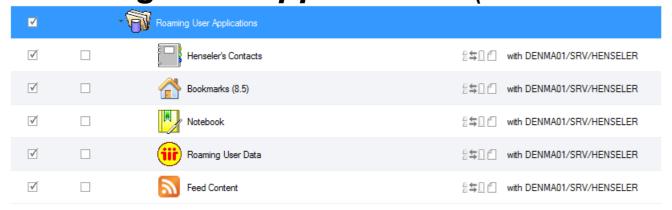
Finally, the most annoying dialog (for the users) appears for the first time:



And the client is restarted, if the user's selects Yes During restart, the desktop8.ndk is migrated into bookmark.nsf

What's changed in the client?

The roaming databases are added to the Replicator page in the folder **Roaming User Applications** (cannot be modified by the user):

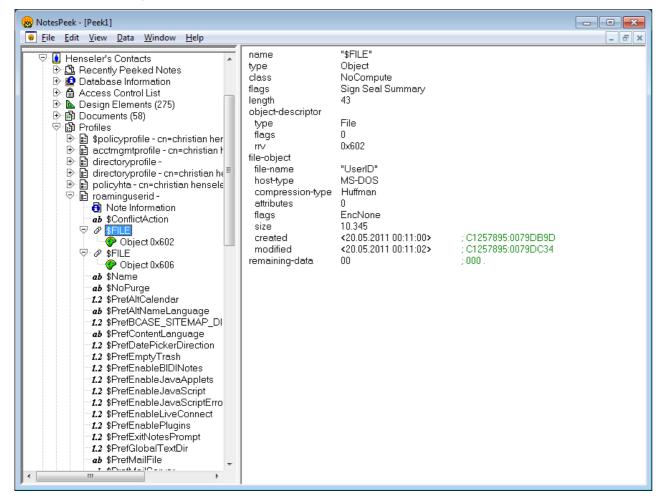


- The Replication schedule of the current location is activated and set with the defaults (if not already enabled)
- The ACL of the Roaming databases is modified (primarily the Administration server is set to the Roaming server)
- The workspace is migrated into the booksmarks (desktop file is not used as workspace further on!)
- Roaminguserid profile is created in the contacts database (names.nsf)
- Roaming User Data (Roamingdata.nsf) is created for RCP-settings
- The databases are created and replicated on the Roaming server:
 - Bookmarks.nsf
 - Localfeedcontent.nsf
 - Names.nsf
 - Roamingdata.nsf
 - Notebook.nsf/Journal.nsf

If File server Roaming is used, the dbs will be medium encrypted locally

The roaminguserid profile

A rominguserid profile document is created in the user's names.nsf:



It stores:

- Notes.ini Settings (\$Pref....)
- •User.id (\$File item, double encrypted, if store id in PAB was selected)
- Standard Client user dictionary (\$File item, userDictionary.xml)
- Basic Client user dictionary (\$File item, user.dic)
- Roaming settings (from the person document)

But: Not all notes.ini settings are stored and roam!

Attention: Some settings need a client restart after been roamed locally! To remove the user.id from the profile document, you may look at LO59993

IDVault vs. ID in pers. Address Book

ID Vault is the new recommended mechanism to synchronize IDs between client computers.

But what about existing Roaming users with IDs in pers. Address Book?

- 1. UserID item must be removed from the roaminguserid profile
- RoamingIDisInNAB must be reset in the roaminguserid profile and Person Document

Problems:

- 1. **\$file** items cannot be handled easily using LotusScript
- 2. By deleting the whole roaminguserid profile notes.ini settings and user dictionary stops roaming
- → 8.5.3 provides a new detachid.zip utility (in utility\NotesCustomizationKit_1_0.zip)

IDVault vs. ID in pers. Address Book

1. Client side utility detachid.exe

Must be executed on the client side:

C:\Documents and Settings\Administrator\Local Settings\Application Data\Lotus\No tes\Data>"C:\Program Files\IBM\Lotus\Notes\detachid.exe

[023C:0002-051C] ID is detached!

If no ID is found in the Address Book:

C:\Documents and Settings\Administrator\Local Settings\Application Data\Lotus\No tes\Data>"C:\Program Files\IBM\Lotus\Notes\detachid.exe

[06E8:0002-06F4] ID is not stored in NAB for this user.

Result:

- 1. UserID \$file item is removed from the roaminguserid profile
- 2. RoamingIDisInNAB=0 in the roaminguserid profile

2. Domino Directory based agent javaAgentForDetachid.java

- 1. Must be imported into the Domino Directory
- 2. Must be run against Roaming user's person documents or groups

Result:

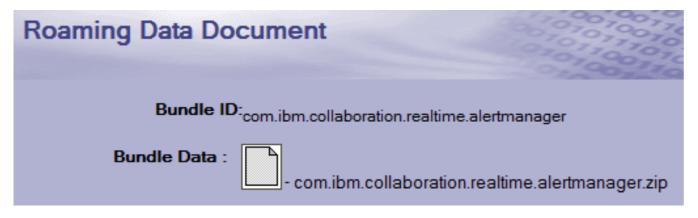
RoamingIDIsInNAB=0 in the person document

The roamingdata.nsf

Some(!) Lotus Expeditor settings are stored in the roamingdata.nsf:

	Roaming User Data	#	Bundle ID ≎	Compatible Versions	prefs 🗘	Bundle Data Size 🗘	Total Size ◊
	All Docs bundledatabybundleid bundledatabybundleid	1	com.ibm.collaboration.realtime.alertmana			359	2219
		 2	com.ibm.rcp.locationmanager				113
		3	com.ibm.rcp.search.ui				363
		4	com.ibm.rcp.toolbox.admin				95
		5	com.ibm.rcp.ui				6260

The bundle data is zipped:



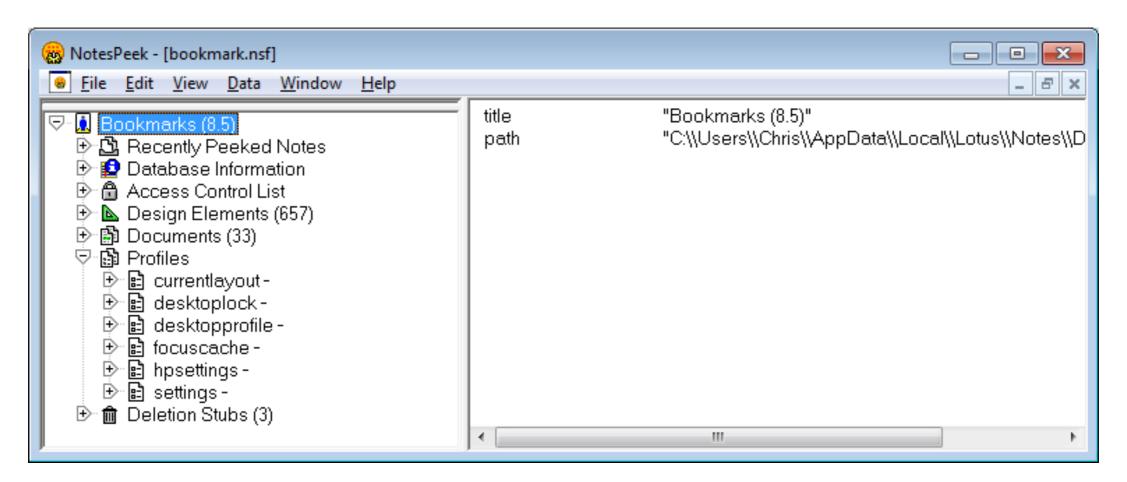
Do not modify the data in this database manually!

Roamingdata.nsf is only processed at startup and shutdown!

The migrated Workspace

After the Workspace (Desktop8.ndk) has been migrated into the bookmarks file, you can find:

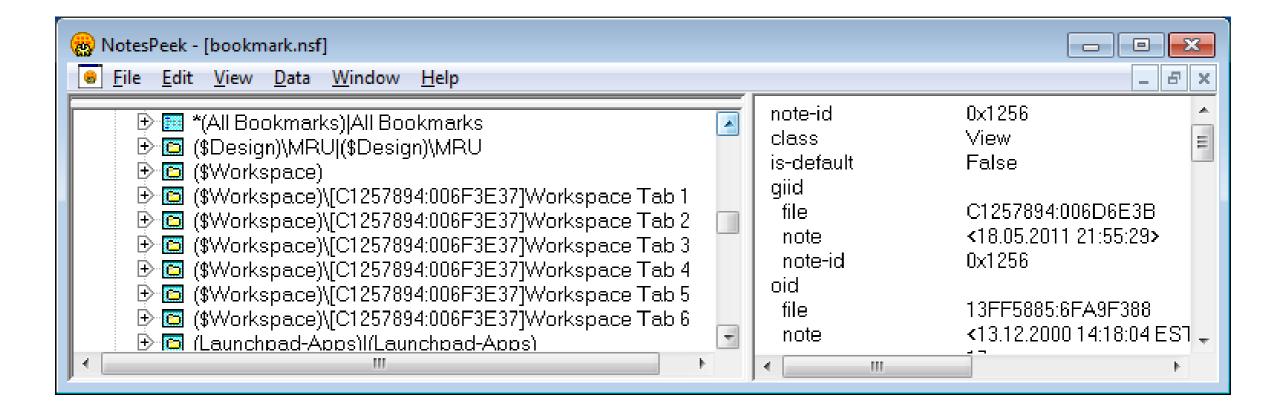
- A desktoplock profile document
- A desktopprofile profile document (Stored the desktop as binary object)



The migrated Workspace

After the Workspace (Desktop8.ndk) has been migrated into the bookmarks file, you can find:

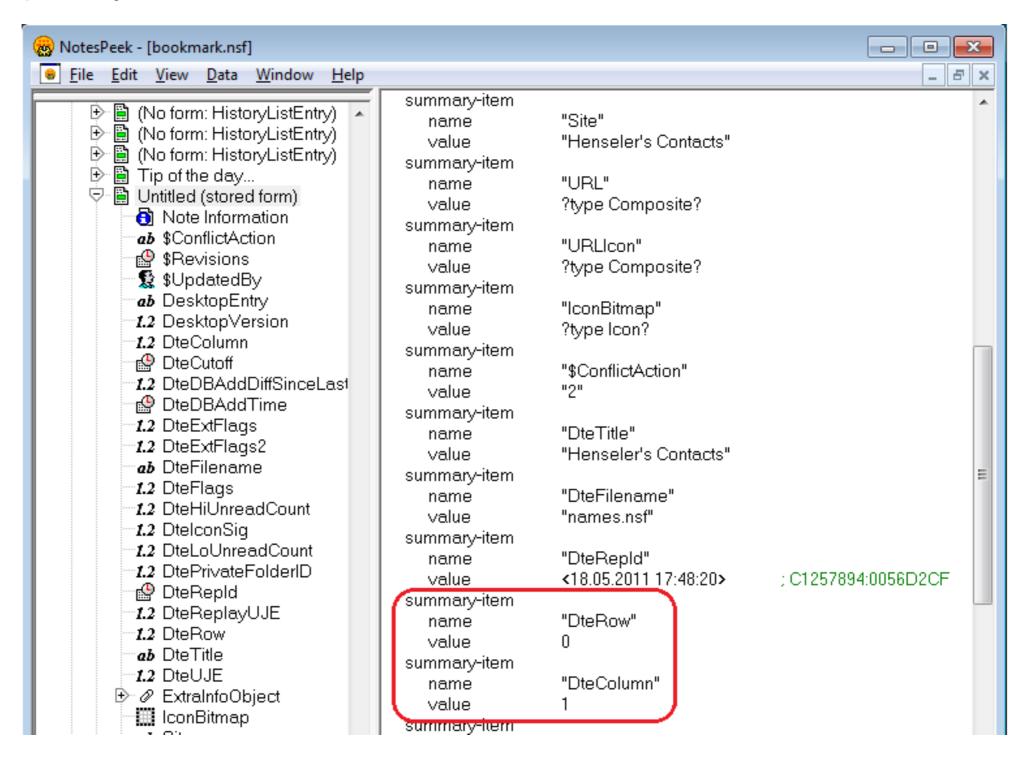
Workspace folders



The migrated Workspace

After the Workspace (Desktop8.ndk) has been migrated into the bookmarks file, you can find:

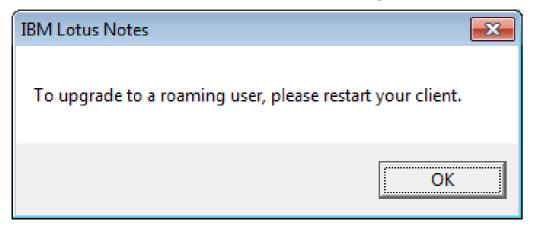
Desktop entry documents



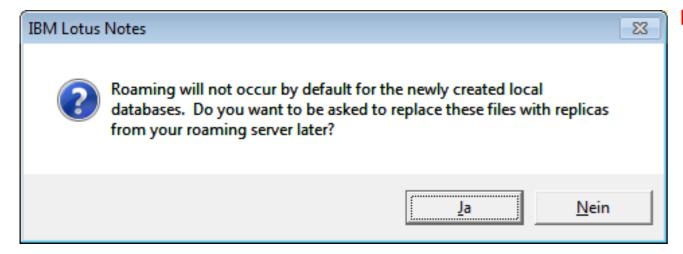
What happens, if

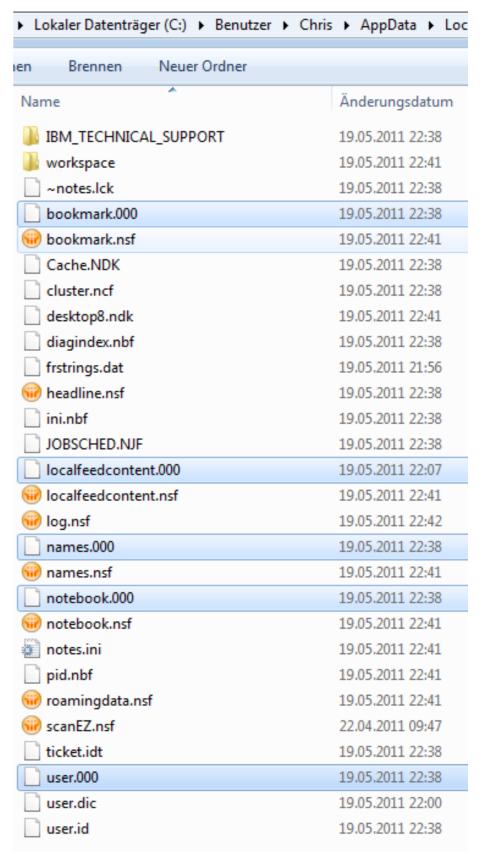
The user was using more than one machine, before roaming was activated:

If the machine is running while roaming is activated: Lokaler Datenträger (C:) > Benutzer > Chris > AppData > Loc



The first start after roaming has enabled on another machine:

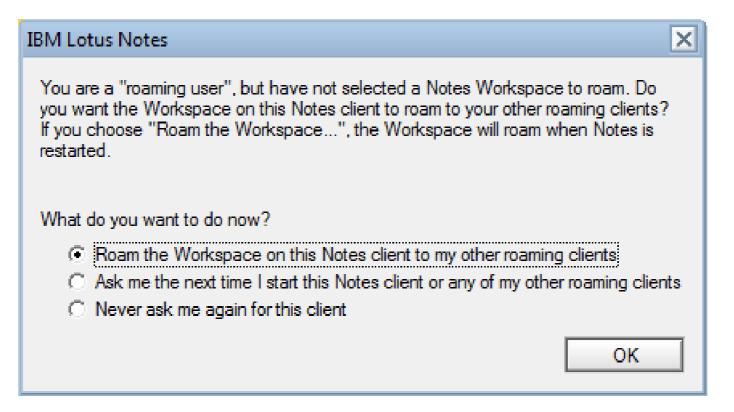




What happens, if

The user is using a different machine while the workspace migration process is

ongoing:



Notes.ini:

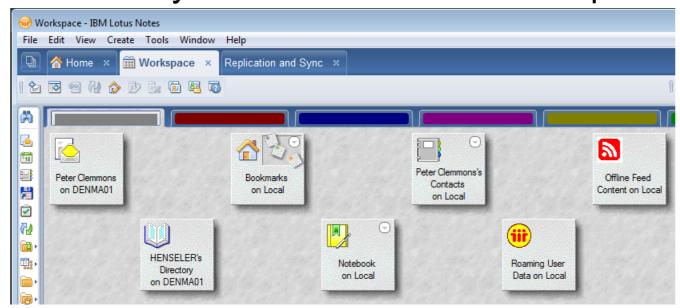
Workspace_Roaming_Prompt=3378 → Roam the Workspace on the Notes client

Workspace_Roaming_Prompt=3379 → Ask me the next time I start this Notes client

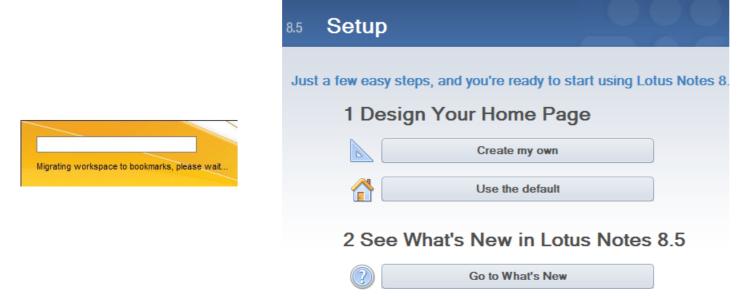
Workspace_Roaming_Prompt=3380 → Never ask me again for this client

What happens, a local roaming db is corrupted

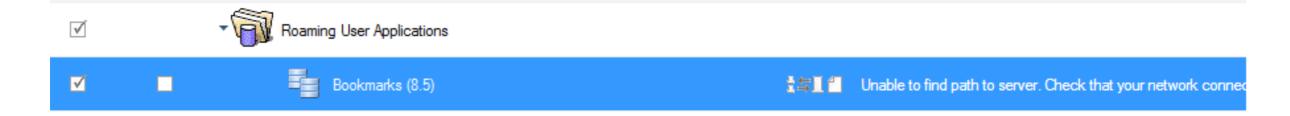
You think the local bookmark.nsf is corrupted and you want to restore it. That's how your Bookmarks and workspace look before:



The wrong way: Simply delete the bookmarks.nsf:



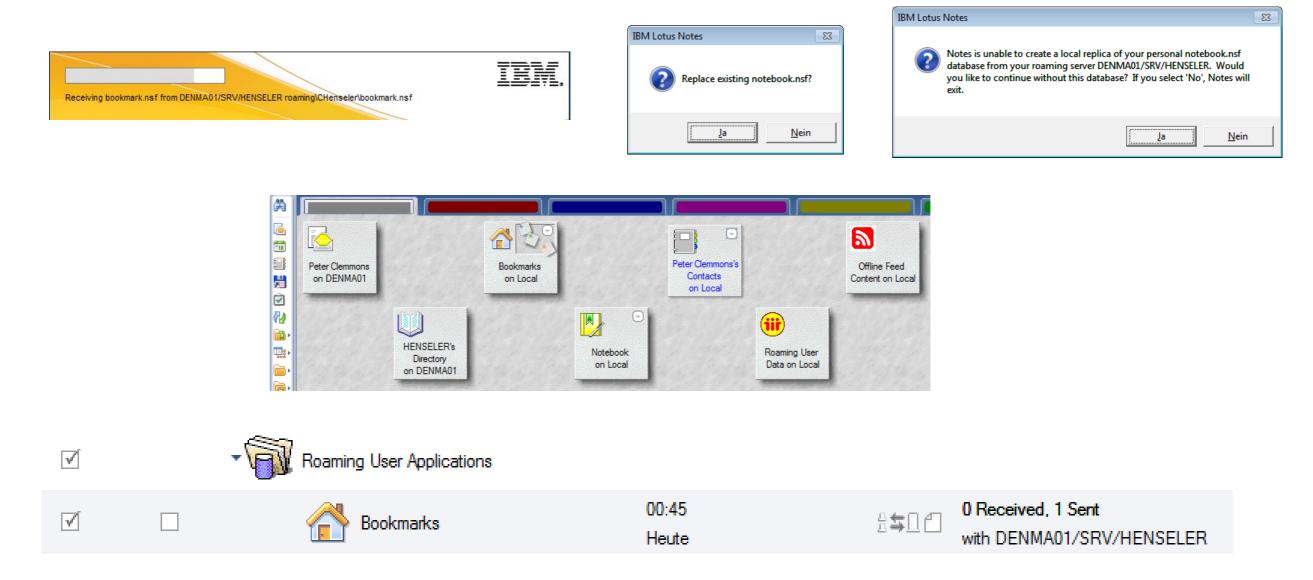




What happens, a local roaming db is corrupted

The right way:

- Delete bookmarks.nsf
- •Reset Setup= parameter in local notes.ini
- Delete RoamedHere=1 from the local notes.ini



Look for localfeedcontent.00? Files and delete them.

Uuups!?...

How to reset the Roaming Prompt dialog, if the users has chosen *Never ask me again...* on a machine?

Reset the RoamingUpgrade Parameter in the user's notes.ini on that machine:

- RoamingUpgrade=1 Updrade machine on next start
- RoamingUpgrade=2 Ask me the next time I start Notes
- RoamingUpgrade=3 Never ask me again, I do not want this computer to roam
- → Set RoamingUpgrade=2

How to reset the migrated Workspace, if the Workspace was not migrated from the primary workstation?

- 1. Set the following notes.ini settings on every user's machine:
 - DISABLE WORKSPACE ROAMING=1
 - RESET WORKSPACE ROAMING=1
- 2. Restart the client
- 3. Ensure that the following notes.ini are **not** present:
 - WORKSPACE ROAMING STATUS=4
 - WORKSPACE_IN_BOOKMARKS=1
- 4. Set in the notes ini
 - Remove DISABLE_WORKSPACE_ROAMING=1
 - Set ENABLE_WORKSPACE_ROAMING=1
- 5. After the Workspace has been migrated, you will find:
 - WORKSPACE_ROAMING_STATUS=4
 - WORKSPACE IN BOOKMARKS=1

When you are in a hurry

You may want to use the new Enable/Disable Roaming on the fly feature, if you want to temporarily disable roaming:

DisableRoaming=0 (roaming processing is not disabled)

DisableRoaming=1 (roaming processing is disabled)

DisableRoaming=2 (Roaming Domino upgrade will be attempted, if you were previously in a roaming disabled state while running Notes client setup)

DisableRoaming=3 (Roaming policy upgrade will be attempted, if you were previously in a roaming disabled state while running Notes client setup)

LO: Enable/Disable Roaming on the fly is not supported for file server roaming

Debugging Roaming

Debug_Roaming=1 can be used to debug Roaming issues, e.g.

[0A8C:0002-080C] Preseting path to roaming lock db to CN=DENMA01/OU=SRV/O=HENSELER!!mail\jdoe

[0A8C:0002-080C] Entering GetUpgradeLock()

[0A8C:0002-080C] Using Mail file as lock db

[0A8C:0002-080C] Using preset value CN=DENMA01/OU=SRV/O=HENSELER!!mail\jdoe, as the mail file path

[0A8C:0002-080C] Path to the lock DB = CN=DENMA01/OU=SRV/O=HENSELER!!mail\jdoe

[0A8C:0002-080C] (125-72 [157]) OPEN_DB(CN=DENMA01/OU=SRV/O=HENSELER!!mail\jdoe): (Opened: REPC125788C:006D26CC) 1 ms.

[134+290=424]

[0A8C:0002-080C] (126-72 [158]) GET_NAMED_OBJECT_ID(**\$profile_015roaminguserlock_cn=john doe/ou=usr/o=henseler**): 0 ms. [84+24=108]

(Special database object cannot be located)

[0A8C:0002-080C] Creating roaming lock document

[0A8C:0002-080C] Creating profile note for lock

[0A8C:0002-080C] Saving profile note

[0A8C:0002-080C] Preseting path to roaming lock db to CN=DENMA01/OU=SRV/O=HENSELER!!mail\jdoe

[0A8C:0002-080C] Attempting to release roaming lock

[0A8C:0002-080C] Using Mail file as lock db

[0A8C:0002-080C] Using preset value CN=DENMA01/OU=SRV/O=HENSELER!!mail\jdoe, as the mail file path

[0A8C:0002-080C] Path to the lock DB = CN=DENMA01/OU=SRV/O=HENSELER!!mail\jdoe

[0A8C:0002-080C] (132-72 [164]) GET_NAMED_OBJECT_ID(\$profile_015roaminguserlock_cn=john doe/ou=usr/o=henseler): 0 ms. [84+24=108]

[0A8C:0002-080C] (133-72 [165]) **DELETE_NOTE**: 1 ms. [30+50=80]

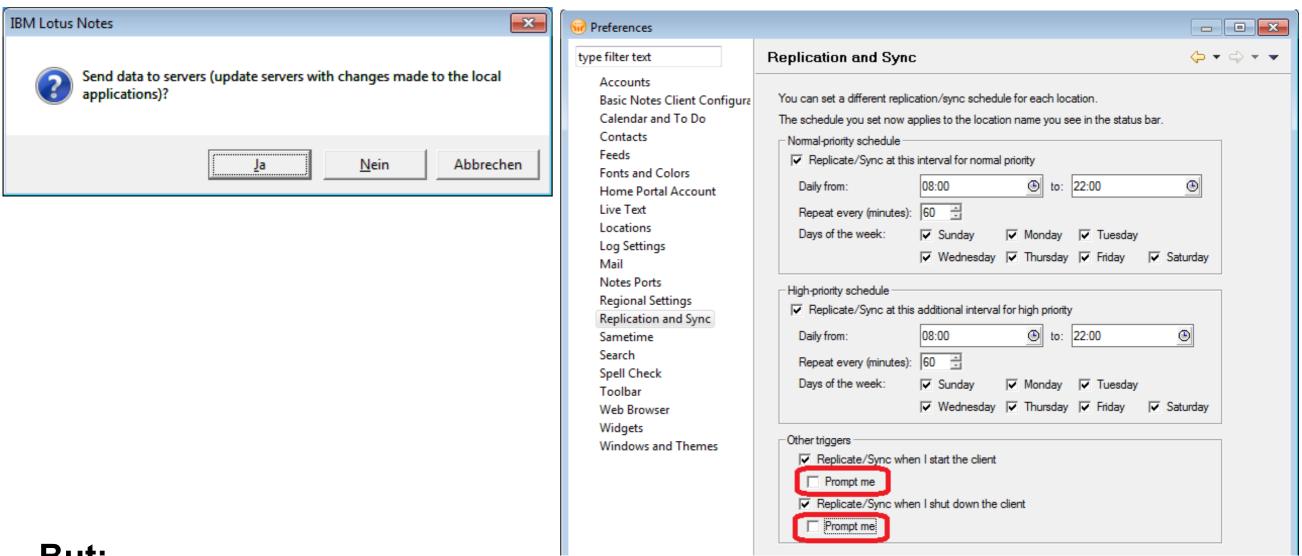
[0A8C:0002-080C] roaming lock released

So, the Notes client is using a tempory roaming lock profile document Not documented...

There are some reports that this may cause roaming activation problems.

Good to know

To avoid this dialog at shutdown: you may want to set



But:

LO58180: REPLICATOIN POLICY UI IMPLIED THAT YOU CAN REPLICATE AT SHUTDOWN WITHOUT PROMPT, BUT NOT TRUE

"Currently there is no working method for forcing replication of roaming files on exit without prompting. Policy, notes.ini and plugin_customization.ini-Entry are not available or do not work."

Alternatives

Instead of using Domino Roaming, you may use another way of "Roaming":

- •Data directory on network drive:
 - •Only supported for Citrix XenApp (starting with 8.5.1)
 - What about Laptops being offline (Data sync problem)?
 - Open File handles & concurrent TCP/IP sessions might be a problem

•OS server based profiles:

- %LOCALAPPDATA% is not roaming & not supported by IBM
- Negatively impacts on Logon/Logoff process and Profile size

•Synchronization tools:

- Notes tools like Panagenda MarvelClient, Cooperteam Desktop Manager, BCC ClientGenie
- •OS based tools: OS file synchronization tools

It's **not trivial** to identify the user's Notes data directory outside of a running Lotus Notes client session:

- Multi-User vs. Single User (location of data directory, notes.ini)
- •What if Notes was started with notes.exe =Z:\private\notes.ini?
- Wrong Registry entries (DataPath, CommonDataPath, NotesiniPath)
- Multi-Platform (Windows vs. Linux vs. Mac OS)

The Notes data directory

If you have to care on your own, you may want to synchronize the whole Notes data directory, but

What files are of interest?

- Classic Notes files (names.nsf, bookmark.nsf, notebook.nsf, localfeedcontent.nsf, Desktop8.ndk, notes.ini, user.dic)
- ID should be "roamed" using ID Vault, but can be file copied (no NSL!)
- Workspace\.metadata\.settings*.xml & *.prefs
- Workspace\UDM\userdictionary.xml

Do not care of

- Local mail files
- Local archives
- Fulltext indices
- Workspace\.config (esp. Java shared classes cache)
- Cache/temp files

But what about workspace\applications (Roaming vs. provisoning)?

- It's a balance between fidelity and Diskspace/Network I/O
- •Files must be synchronized at Notes start/shutdown