

IBM Sametime 8.5.x / 9.x Umstellung auf LDAP Authentifizierung



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Agenda

- **IBM Sametime 8.5.x Komponenten**
- **LDAP Basics**
- **Verteilung der Sametime Einstellungen (Vorbereitung)**
- **Umstellung ST Community Server auf LDAP**
- **Praktische Erfahrungen und Tipps**
 - Policy, Business Card, LDAP Performance

IBM Sametime – *Komponenten*

- ST 8.5.x „Websphere“ System Console
- ST 8.5.x „Domino“ Community Server
- ST 8.5.x „Websphere“ Proxy Server (Web/native Clients)
- ST 8.5.x „Websphere“ Meeting Server
- ST 8.5.x „Websphere“ Advanced Server
- ST 8.5.x „Websphere“ Gateway Server
- ST 8.5.x Unified Telephony
- ST 8.5.x „Websphere“ Media Manager Server



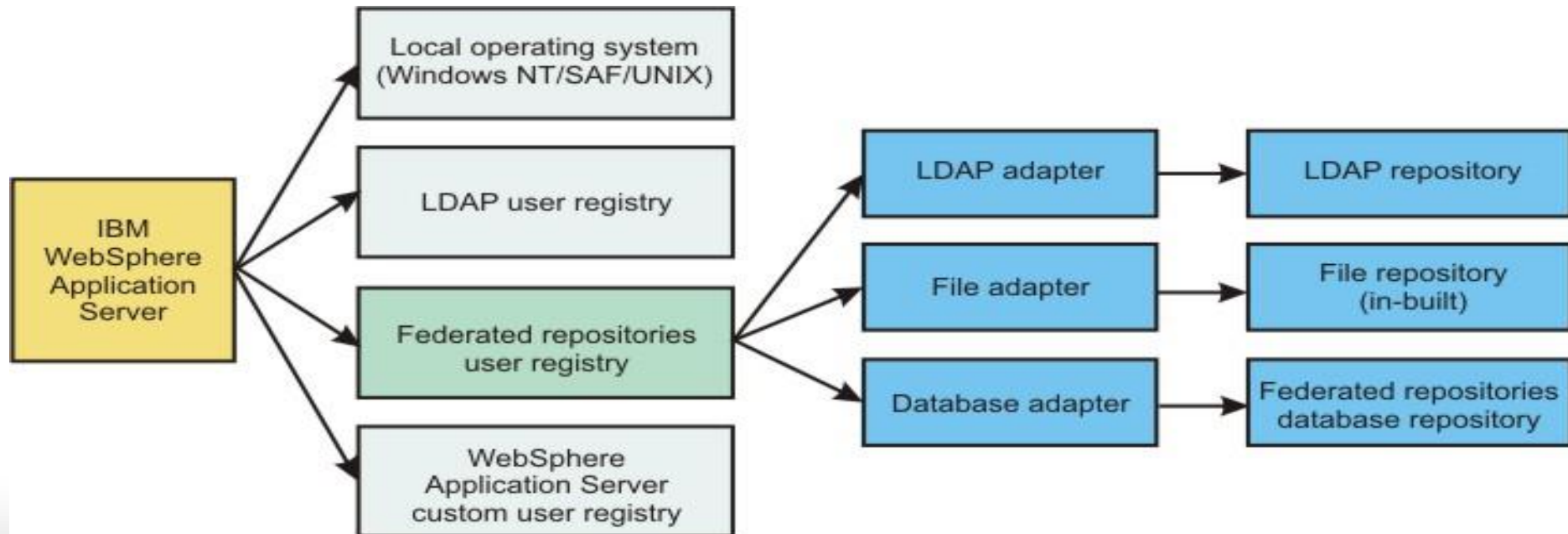
- ST 8.5.2 TURN Server
- ST 8.5.2 „Websphere“ Bandwith Manager
- ST 8.5.2 „Websphere“ SIP Edge Proxy
- ST 9.x „Websphere“ Video Manager (Linux)
- ST 9.x Video MCU (Linux)

Agenda

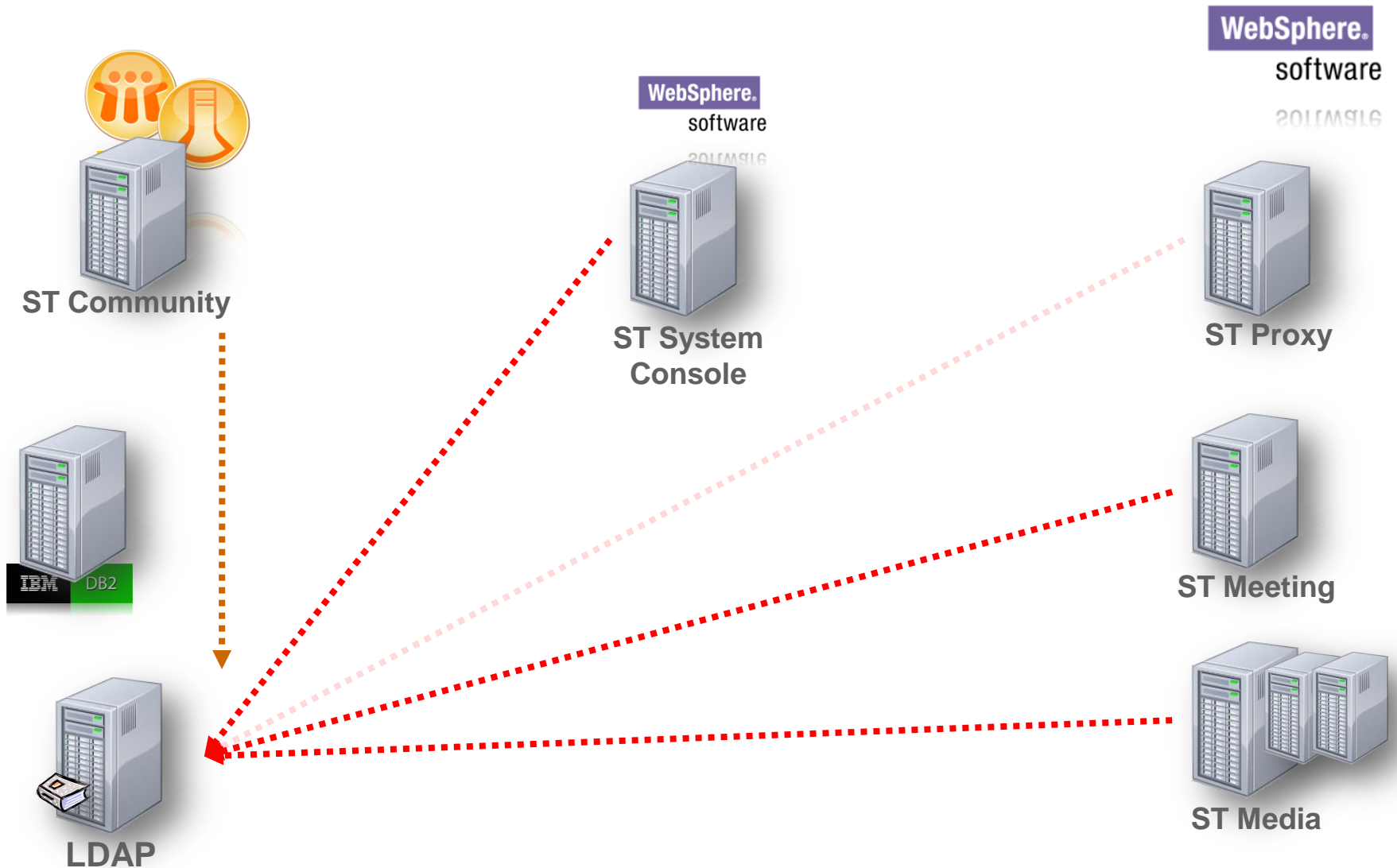
- › IBM Sametime 8.5.x Komponenten
- › **LDAP Basics**
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IBM Websphere – LDAP

- ▶ IBM Websphere verwendet für die Benutzerauthentifizierung sogenannte „**User registries**“
 - ▶ **File Repository** (XML based)
 - ▶ z.B. wasadmin (.../WASroot/profiles/dmgr/config/cells/<cellname>/security.xml)
 - ▶ **Federated repository**
 - ▶ LDAP Repository (IBM Domino, MS Active Directory, etc.)



IBM Sametime – LDAP Use



IBM Sametime – *LDAP*

- ▶ Websphere kann keine „native“ Domino Authentifizierung (names.nsf) verwenden
- ▶ Sametime „Domino“ Community - Verzeichnissupport
 - ▶ Native Domino: CN=Alexander Novak/O=edcom/C=DE
 - ▶ LDAP Domino: CN=Alexander Novak,O=edcom,C=DE
 - ▶ LDAP MS ADS: CN=Alexander Novak,OU=IT,DC=edcom,DC=De
- ▶ **FAZIT**
 - ▶ Umstellung aller Sametime „Domino“ Community Server auf **LDAP** ist zwingend notwendig

IBM Domino – *Domino LDAP für Sametime*

➤ Verwendung eines Domino LDAP Server

- ▶ Administrationsserver der Domäne (Standard)
 - ▶ LDAP & Schema.nsf (Ischema.Idif) automatisch aktiviert/erstellt
- ▶ Jeder andere Domino Server
 - ▶ **LOAD LDAP**
 - ▶ Schema.nsf wird vom Adminserver repliziert
- ▶ Directory Assistance Konfiguration am Sametime Server zum LDAP Server

➤ **ACHTUNG !!!** Websphere Login per LDAP geht nicht

- ▶ Ursache: Directory Assistance Zugriffe vom LDAP Admin
 - ▶ LDAPaccount muss Rechte auf **ALLE NAB** DBs (via DA eingebunden) haben
 - ▶ „*max internet User & Password*“ Access
 - ▶ ACL mindestens *Reader*

IBM Domino – LDAP



› LDAP Ergebnisse mit **LDAPsearch** testen

- ▶ `..\notesprog\ldapsearch -h Idaphost -P 389 -D Idapaccount -w Idappassword objectclass=person`

```
CN=Master Admin,O=edcomloc
cn=Master Admin
mail=admin@edcom.local
displayname=Master Admin/edcomloc
objectclass=dominoPerson
objectclass=inetOrgPerson
objectclass=organizationalPerson
objectclass=person
objectclass=top
dominocertificate=0400BA01 1133C988 0AG0161A G0028194
givenname=Master
sn=Admin
uid=madmin
maildomain=edcomloc
```

- ▶ `ldapsearch -h Idaphost -P 389 -D Idapaccount -w Idappassword sn=admin / uid=madmin / cn="Master Admin"`

IBM Domino – *LDAP mapping*

Domino	Mapping	LDAP	Verwendung
Person	Object Class	Person dominoPerson InetOrgPerson OrganizationalPerson	
Group	Object Class	Dominogroup groupofnames	
Fullname	Object Attribute	cn	LDAP Login/Search
Fullname (erster Eintrag)	Object Attribute	displayname	
Firstname	Object Attribute	givenname	ST Visitenkarte
Lastname	Object Attribute	sn	ST Visitenkarte
Shortname	Object Attribute	uid	LDAP Login/Search
InternetAddress	Object Attribute	mail	ST Visitenkarte LDAP Login/Search
Document ID	Object Attribute	dominoUNID	ST Policy
OfficePhoneNumber	Object Attribute	telephonenumber	ST Visitenkarte
Companyname	Object Attribute	company	
Title	Object Attribute	title	ST Visitenkarte
PhotoURL	Object Attribute	photoURL	STProxy Visitenkarte
Ou	<i>NOT editable in person document</i>	ou	ST Visitenkarte
Street\$City\$State\$ZIP\$Country	<i>Domino 8.0.2+</i>	postaladdress	ST Visitenkarte

MS Active Directory – *LDAP*

› LDAP Ports

- ▶ 389 bzw. **3268** → Global Catalog
 - ▶ [Global Catalog and LDAP Searches](#)
- ▶ **TIPP**: SearchFilter Exclude für deaktivierte AD Accounts in Websphere
 - ▶ [LDAP *BaseFilter Examples](#)
 - ▶ `(&(objectCategory=Person)(sAMAccountName=*)(!(UserAccountControl:1.2.840.113556.1.4.803:=2)))`

[Global security](#) > [Federated repositories](#) > [DomLDAP](#) > [LDAP entity types](#) > [PersonAccount](#)

Use this page to list entity types that are supported by the member repositories or to select an entity type to view or change its configuration properties.

General Properties

✦ Entity type

PersonAccount

✦ Object classes

inetOrgPerson

Search bases

Search filter

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Eclipse Settings - *Basics*

- ▶ Der IBM Sametime Client ist „eclipsed-based“ und speichert seine **Einstellungen/Vorgaben** in **XML** Dateien (Settings) ab
 - ▶ userdata\workspace\.metadata\plugins\com.ibm.collaboration.realtime.community.sametime\community-config.xml
 - ▶ userdata\workspace\.metadata\plugins\com.ibm.collaboration.realtime.login\CN=Master Administrator_O=edcomtest.xml
- ▶ Verteilte Vorgaben (**managed Settings**) werden in ***.prefs** Dateien gespeichert und in die XML Dateien übernommen
 - ▶ userddata\workspace\.metadata\plugins\org.eclipse.core.runtime\.settings*.prefs
 - ▶ *com.ibm.collaboration.realtime.community.prefs*
 - ▶ *com.ibm.collaboration.realtime.imhub.prefs*
 - ▶ *com.ibm.rtc.shelf.prefs*
 - ▶ uvm.

Eclipse Settings – *Vorgabeparameter verteilen*

➤ Methoden der Verteilung von Eclipse/ST Einstellungen

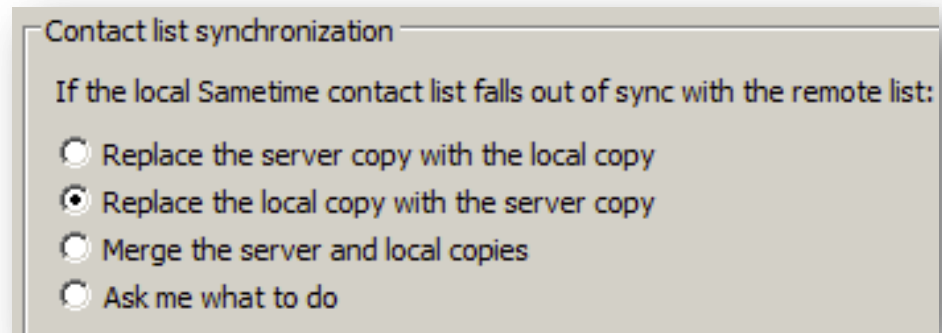
- ▶ Notes [Desktop Policy](#) (Vorgabe / ENFORCE)
- ▶ [Plugin_customization.ini](#) (Vorgabe)
- ▶ [XML Providerfile](#) (Vorgabe / ENFORCE)
- ▶ [Community_config/user.xml](#)

➤ **Empfehlung** = XML Providerfile oder Policy

 [Methods to configure ST Connect Client 8 user preferences](#)

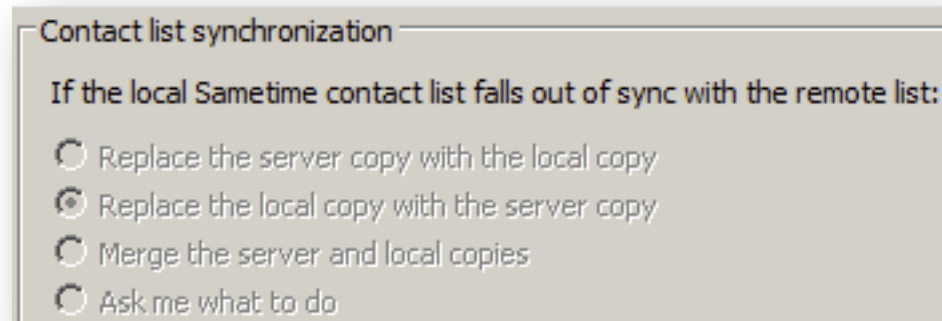
Eclipse Settings – *Vorgabeparameter*

- › **Verteilung** der BuddyListConflict Parameter via **Notes Policy** funktioniert nicht immer 100 % und kann **nicht eingeschränkt** werden



- › **Empfehlung**

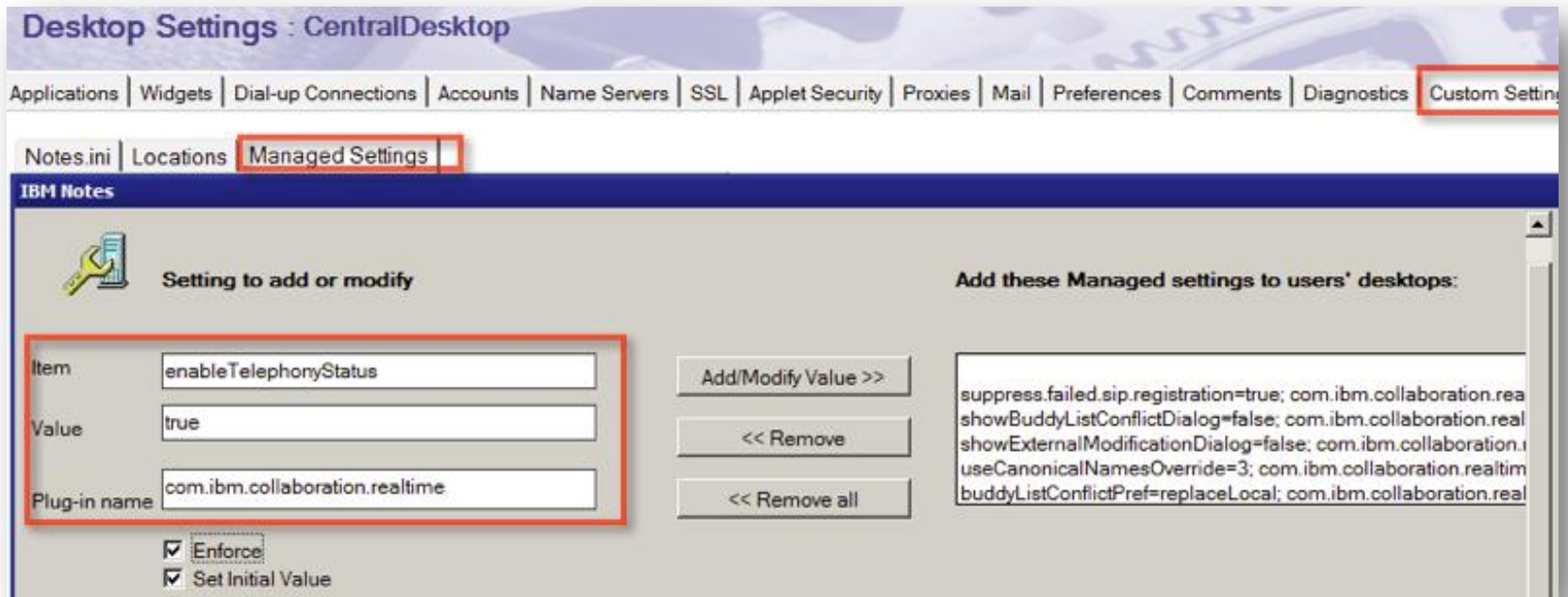
- **Sametime Policy**
- oder
- **XML Fileprovider**
- *Settings sind gesperrt*



Eclipse Settings – *Notes Desktop Policy*

› Notes Desktop Policy erstellen / „Managed settings“

- › `pluginID/preferenceID=preferenceValue`
- › `pluginID` = Java Klasse
- › `preferenceID` = Parameter
- › `preferenceValue` = Wert




Desktop Settings : CentralDesktop

Applications | Widgets | Dial-up Connections | Accounts | Name Servers | SSL | Applet Security | Proxies | Mail | Preferences | Comments | Diagnostics | Custom Settings

Notes.ini | Locations | **Managed Settings**

IBM Notes

 **Setting to add or modify**

Item:

Value:

Plug-in name:

Enforce
 Set Initial Value

Add/Modify Value >>

<< Remove

<< Remove all

Add these Managed settings to users' desktops:

```
suppress.failed.sip.registration=true; com.ibm.collaboration.realtime.showBuddyListConflictDialog=false; com.ibm.collaboration.realtime.showExternalModificationDialog=false; com.ibm.collaboration.realtime.useCanonicalNamesOverride=3; com.ibm.collaboration.realtime.buddyListConflictPref=replaceLocal; com.ibm.collaboration.realtime.
```


Eclipse Settings – XML Fileprovider



➤ Zuweisung des „XML Fileprovider“ via

▶ Domino Policy

- ▶ `com.ibm.rcp.managedsettings.provider.file/URL=http://www.novitest.local/mySTsettings.xml`
- ▶ `com.ibm.rcp.managedsettings.provider.file/URL=file://c:/data/mySTsettings.xml`

▶ Sametime Policy - Sametime Update Site URL

- ▶ <http://st1.educ.local/updates> (`..domdata/domino/html/updates/`)

Logging		
LDAP Directory		
Policies		
Configuration		
Help		
Set UDP port for voice call	UDP port:	20830
Allow client-to-client video call	<input checked="" type="checkbox"/> Yes	
Note: The 'Allow client-to-client voice call' policy must be set before setting this policy.	Video bit rate Kbps (Minimum 32):	512
Set UDP port for video call	UDP port:	20832
Allow custom emoticons	<input checked="" type="checkbox"/> Yes	
Allow screen captures and images	<input checked="" type="checkbox"/> Yes	
Set maximum image size for custom emoticons, screen captures and inline images	<input type="checkbox"/> Yes	500 KB
Allow mobile client	<input checked="" type="checkbox"/> Yes	
Allow multiple server communities	<input checked="" type="checkbox"/> Yes	
Allow users to add external users using the Sametime Gateway	<input type="checkbox"/> Yes	
Sametime update site URL	<input type="text"/>	<code>http://stserver/stpolicy</code>
Sametime optional add-on site URLs	Type the optional add-on site URLs,	

Policy Name: **Sametime Instant Messaging Default Policy**

Chat

- User must set this community as the default server community (IC)
- Allow user to add multiple server communities (IC)
- Allow user to add external users using Sametime gateway communities
- Allow user to save chat transcripts (IC)
- Automatically save chat transcripts (IC)
Valid only if "Allow user to save chat transcripts" is checked.

Maximum days to save automatically saved chat transcripts (IC):
365
Set this field to zero to allow users to save chat transcripts for an unlimited time.

- Limit contact list size

Contacts:
500
Valid (and required) if "Limit contact list size" is checked.

- Allow all Sametime Connect features to be used with integrated clients (IC)
Use this setting if the Sametime Connect Client is enabled and licensed to work with integrated clients.
- Allow mobile client
- Sametime update site URL (IC):**
`http://server.company.com/updates`
The site where users will get automatic refreshes of the Sametime Connect client.

Eclipse Settings – XML Fileprovider



› Sametime 8.5 Client kann zwei XML Fileprovider Dateien ansprechen

› managed-settings.xml

← Vorgabe / Sametime

- › `<ManagedSettings>`
 - › *<!--Aufbau eines XML Fileprovider Datei für Sametime Vorgaben-->*
 - › `<settingGroup name=„pluginID“>`
 - › `<setting name="preferenceID" value="preferenceValue" isLocked="true/false"/>`
 - › `</settingGroup>`
 - › `</ManagedSettings>`

› managed-community-configs.xml

← dynamisch (community related)

- › **Action Type(s)**: ADD, DELETE, UPDATE, RESET
- › `<managed-communities>`
 - › *<!--Aufbau eines XML Fileprovider Datei für dynamische Parameter Änderungen-->*
 - › `<managed-community id="STNOVIGLOBAL" host="st85.novi.local" newHost="st9.novi.local"/>`
 - › `<managed-community-action type="update" managed-community-id="STNOVIGLOBAL"/>`
 - › `</managed-communities>`
- › [ST 8.5.2 - Managed community settings](#)

Sametime Settings – *managed-settings*

› Beispiel – Parameter

```
<ManagedSettings>

<!--disabling Buddylist conflict dialogs-->
<settingGroup name="com.ibm.collaboration.realtime.imhub">
  <setting name="showBuddyListConflictDialog" value="false" isLocked="true"/>
  <setting name="buddyListConflictPref" value="replaceLocal" isLocked="true"/>
  <setting name="showExternalModificationDialog" value="false" isLocked="true"/>
</settingGroup>

<!--setting Notes Inbox Awareness to use Notes canonical name (for LDAP environments)-->
<settingGroup name="com.ibm.collaboration.realtime.community">
  <setting name="useCanonicalNamesOverride" value="3" isLocked="false"/>
  <setting name="suppress.failed.sip.registration" value="true" isLocked="true"/>
</settingGroup>

<!-- disable SUT/SIP error popup at client -->
<settingGroup name="com.ibm.collaboration.realtime.telephony.softphone">
  <setting name="suppress.failed.sip.registration" value="true" isLocked="false"/>
</settingGroup>
```

Sametime Settings – *managed-settings*

› Meeting Parameter

```
<ManagedSettings>
<!-- set Meeting Server Preference for all connected ST Clients -->
<!-- set Meeting Share Preference to send via peer to peer -->

<settingGroup name="com.ibm.rtc.meetings.appshare">
    <setting name="com.ibm.rtc.meeting.shelf" value="false" isLocked="false"/>
</settingGroup>
<settingGroup name="com.ibm.rtc.meetings.shelf">
    <!-- For Clients running Sametime 8.5.2 or newer -->
    <!-- <setting name="preconfiguredServerIds" value="stms1374149192887"
isLocked="false"/> -->
    <!-- For Clients running Sametime 8.5.1 or older -->
    <!-- <setting name="MeetingServerIds" value="stms1374149192887" isLocked="false"/> -->
    <setting name="serverName" value="meeting.novi.local" isLocked="false"/>
    <setting name="serverPort" value="80" isLocked="false"/>
    <setting name="useHTTP" value="true" isLocked="false"/>
    <setting name="useHttpProxy" value="false" isLocked="false"/>
    <setting name="connectionType" value="0" isLocked="false"/>
    <setting name="useCustomCredentials" value="false" isLocked="false"/>
    <setting name="communityServerName" value="st9.novi.local" isLocked="false"/>
    <setting name="useCommunityCredentials" value="true" isLocked="false"/>
    <!-- <setting name="canRemoveServer" value="false" isLocked="false"/> -->
    <!-- <setting name="canAddOtherServers" value="false" isLocked="false"/> -->
</settingGroup>
</ManagedSettings>
```

Sametime Kontaktliste

- Der Notes Standard Client **synchronisiert** beim An/Abmelden die Kontaktliste des Sametime Servers (**vpuserinfo.nsf**) mit der lokalen **buddylist.xml**

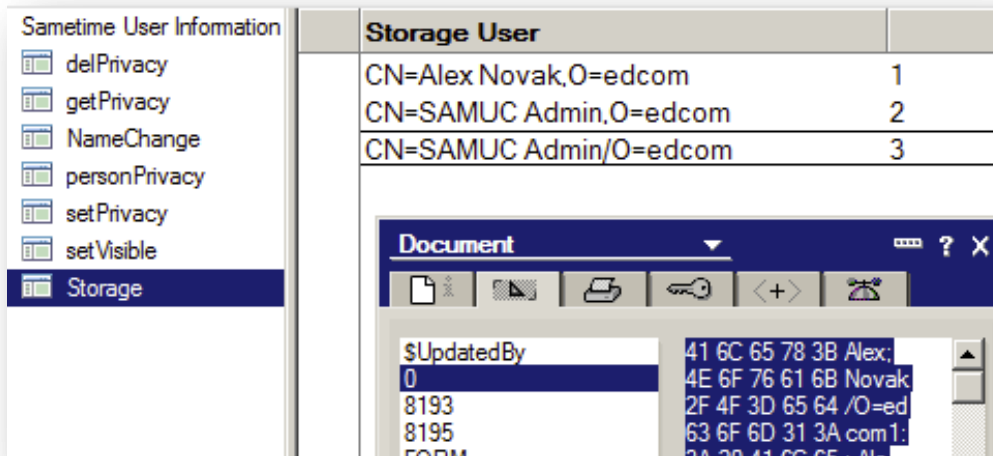
- ▶ `..\notesdata\workspace\metadata\plugins\com.ibm.collaboration.realtime.imhub\buddylist.xml`

```
</statusTexts>
</community>
</communities>
<contactList>
  <group expanded="true" name="Geschäftlich" type="private">
    <user communityId="st2093949881" displayName="Alex Novak" id="CN=Alex Novak,O=edcom"/>
    <user communityId="st2093949881" displayName="SAMUC Admin" id="CN=SAMUC Admin,O=edcom"/>
  </group>
  <group communityId="st2093949881" expanded="true" id="CN=LocalDomainAdmins" name="LocalDomainAdmins" type="public"/>
</contactList>
</imClientConfig>
```

Sametime Kontaktliste

- Der Notes Standard Client **synchronisiert** beim An/Abmelden die Kontaktliste des Sametime Servers (**vpuserinfo.nsf**) mit der lokalen **buddylist.xml**

▶ ..\<dominodata>\vpuserinfo.nsf



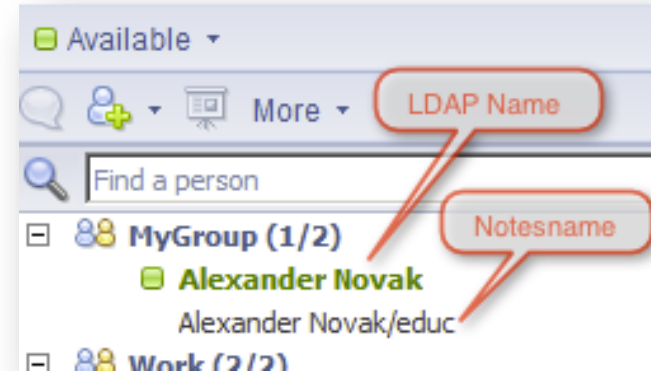
- ▶ **ACHTUNG** – gleiche Replica ID in einer Notesdomäne (Replikation beachten)

```
Field Name: 0  
Data Type: Arbitrary Data  
Data Length: 141 bytes  
Seq Num: 5  
Dup Item ID: 0  
Field Flags:
```

```
09 55 62 71 4F .UbqO  
70 61 71 75 65 paque  
7F 00 00 00 00 ....  
7D 56 65 72 73 }Vers  
69 6F 6E 3D 33 ion=3  
2E 31 2E 33 0D .1.3.  
0A 47 20 57 6F .G Wo  
72 6B 32 20 57 rk2 W  
6F 72 6B 20 4F ork O  
0D 0A 55 20 43 ..U C  
4E 3D 53 41 4D N=SAM  
55 43 3B 41 64 UC;Ad  
6D 69 6E 2F 4F min/O  
3D 65 64 63 6F =edco  
6D 31 3A 3A 20 m1::  
53 41 4D 55 43 SAMUC  
3B 41 64 6D 69 ;Admi  
6E 2F 65 64 63 n/edc  
6F 6D 2C 0D 0A om,..  
55 20 43 4E 3D U CN=  
41 6C 65 78 3B Alex;  
4E 6F 76 61 6B Novak  
2F 4F 3D 65 64 /O=ed  
63 6F 6D 31 3A com1:  
3A 20 41 6C 65 : Ale  
78 3B 4E 6F 76 x;Nov  
61 6B 2F 65 64 ak/ed  
63 6F 6D 2C 0D com,.  
0A
```

Sametime Kontaktliste - *Konfliktdialog*

- › **Kontaktlisten** müssen am Server bei der LDAP Migration **umgestellt** werden und **generieren** somit bei den **Benutzer** ST Kontaktlisten (buddylist.xml) einen **Konflikt**

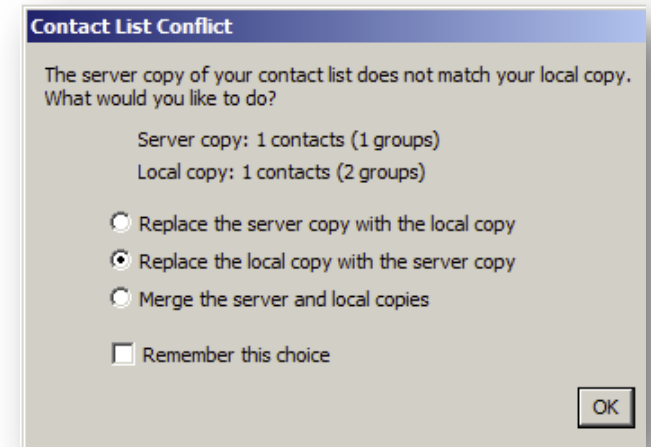


- › **Konfliktdialog**

- › Vorgabe = **Ask & Merge** (Server & Lokal)
- › Ergebnis = **doppelte Einträge** & Support CALLS

- › **Besser für die Migration**

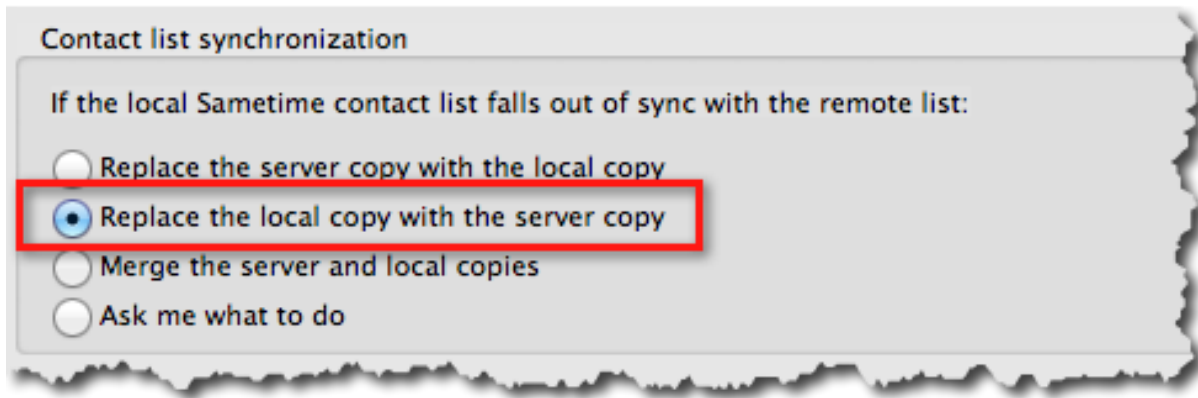
- › **Server** bzw. LDAP Kontaktliste **gewinnt**
- › Interaktion/Auswahl beim Benutzer unterdrücken



Sametime Kontaktliste - *Konfliktdialog*



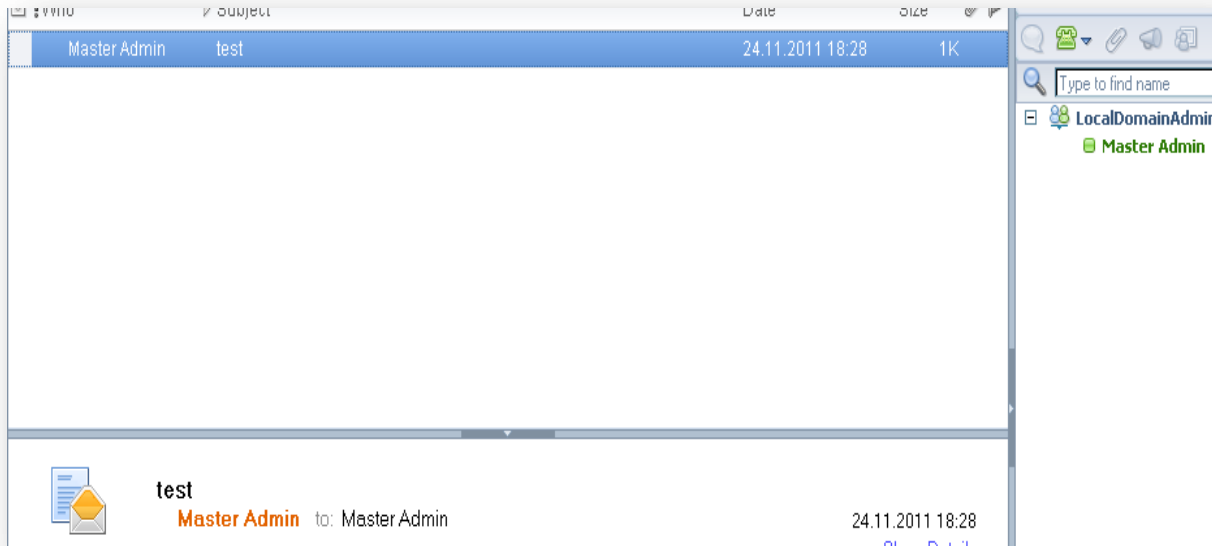
- `com.ibm.collaboration.realtime.imhub/buddyListConflictPref=replaceLocal`
- `com.ibm.collaboration.realtime.imhub/showBuddyListConflictDialog=false`
- `com.ibm.collaboration.realtime.imhub/showExternalModificationDialog=false`



- `<ManagedSettings>`
`<settingGroup name="com.ibm.collaboration.realtime.imhub">`
`<setting name="buddyListConflictPref" value="replaceLocal" isLocked="true" overwriteUnlocked="true"/>`
`<setting name="showBuddyListConflictDialog" value="false" isLocked="true" overwriteUnlocked="true"/>`
`<setting name="showExternalModificationDialog" value="false" isLocked="true" overwriteUnlocked="true"/>`
`</settingGroup>`
`</ManagedSettings>`

ST Parameter – *Inbox Awareness „lookup“*

- Der Notes Client (Standard/Basic) ermöglicht die **Awareness** Funktion auch innerhalb von **Notes Datenbanken**



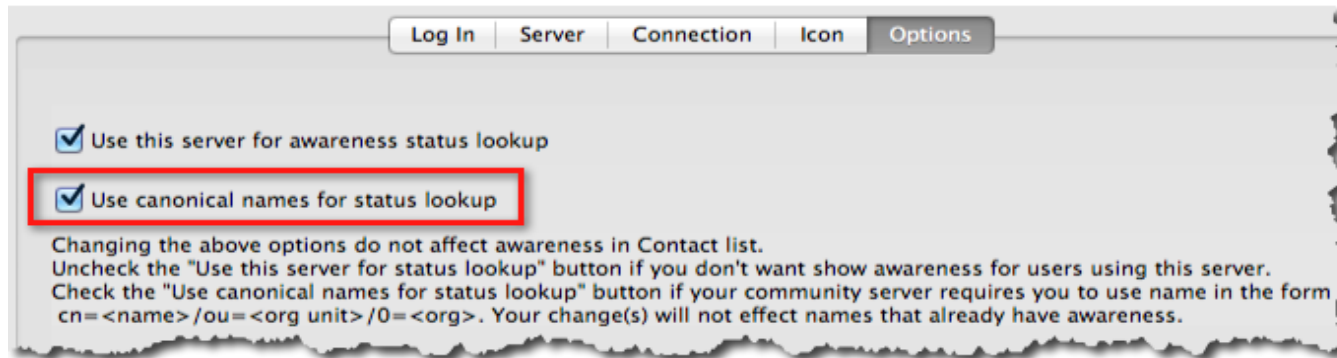
- Diese Namensauflösung wird **IMMER** (Notes ODER LDAP Authentifizierung) gegen den **Notes Kanonischen Namen** (z.B. cn=alexander novak/o=edcom) durchgeführt.

ST Parameter – *Inbox Awareness „lookup“*



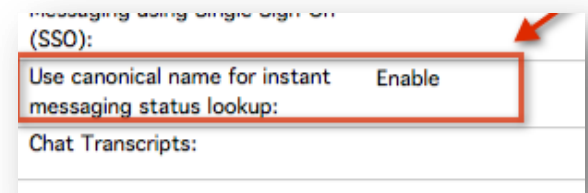
➤ com.ibm.collaboration.realtime.community/useCanonicalNamesOverride=3

- ▶ 0 = "Use canonical names" is unchecked (false) and disabled in the UI for all communities.
- ▶ 1 = "Use canonical names" is checked (true) and disabled in the UI for all communities.
- ▶ 2 = "Use canonical names" is unchecked (false) and disabled in the UI for default community only
- ▶ 3 = "Use canonical names" is checked (true) and disabled in the UI for default community only



➤ Umstellung Basic & Standard Clients

- ▶ Notes.INI: **IM_USE_CANONICAL_NAME=1**
- ▶ Policy: „**Use Canonical name for instant messaging status lookup**“



ST Parameter – *Inbox Awareness „lookup“*

- Der Notes Standard Client behält im Eclipse Workspace Verzeichnis den Businesscard Cache; dieser Cache verweist u.U. auf den Notesnamen und somit wird die Inbox Awareness nicht angezeigt
- `..\<notesdata>\workspace\metadata\plugins\com.ibm.collaboration.realtime.people.imp`



- `com.ibm.collaboration.realtime.people/lookupExpirationDays=0` (default 7 days)
- `com.ibm.collaboration.realtime.people/userInfoReplacesDefaultDisplayName=true`
 - ▶ DISPLAY NAME IN BL SHOULD UPDATE WHEN LDAP DISPLAYNAME UPDATED
 - ▶ The Sametime awareness is not displayed in the Standard Lotus Notes inbox database

Sametime Client(s) - *Vorgabeparameter*



› Sametime Community Parameter

- ▶ `com.ibm.collaboration.realtime.community/host=chat.edcom.local`
 - › Zuweisung des Sametime Servers (auch via Destop Policy Setting möglich)
- ▶ `com.ibm.collaboration.realtime.community/loginAtStartup=true`
`com.ibm.collaboration.realtime.login/autologin=true`
 - › Automatische Anmeldung beim Start (beide Parameter müssen ausgerollt werden)
- ▶ `com.ibm.collaboration.realtime.login/alwaysLoggedIn=true`
 - › Anmelde Dialog im Client wird deaktiviert
→ Automatisches Anmelden sollte aktiviert sein !!!
- ▶ `com.ibm.collaboration.realtime.community/loginByToken=true`
 - › Aktivierung der Anmeldung via Sametime SSO Token
- ▶ `com.ibm.collaboration.realtime.community/savePassword=true`
 - › Speicherung des Sametime/Internetkennwortes
 - › Notwendig für ST *Media/Advanced* Server Anmeldung !!!

Sametime Client(s) - *Vorgabeparameter*



› Sametime Meeting (Webphere) Parameter

- ▶ `com.ibm.rtc.meetings.shelf/serverName=<meetingServerName>`
 - › *Webphere Meeting Servername (FQHN)*
- ▶ `com.ibm.rtc.meetings.shelf/loginByToken=true`
 - › *enable SSO via Sametime Server*
- ▶ `com.ibm.rtc.meetings.shelf/useHTTP=true` OR
`com.ibm.rtc.meetings.shelf/userHTTPS=true`
- ▶ `com.ibm.rtc.meetings.shelf/useCommunityCredentials=true`
- ▶ `com.ibm.rtc.meetings.shelf/communityServerName=<community server name>`
 - › *If using a Community Server for credentials, both of these elements must be set*

Sametime Client(s) - Vorgabeparameter



› Sonstige Sametime Parameter

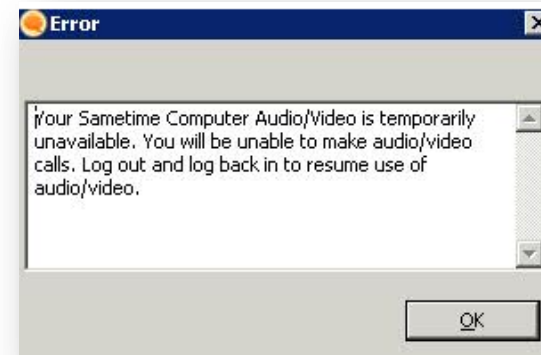
- ▶ `com.ibm.rcp.bizcard/disable.content.for.NotesContacts=true`
 - *Notes 8.5.1 FP2 sucht zusätzlich die Business Card gegen das private Notes Adressbuch (names.nsf) und somit können BC Daten u.U. inkonsistent sein*
 1. BC vom Sametime Server
 2. BC von IBM Connections (nach Login)
 3. BC vom privaten Adressbuch
- ▶ `com.ibm.collaboration.realtime.people/liveNameResolvePrimaryOnly= [true (default)| false]`
 - *Modify live names resolves process, to resolve live names against the primary community only*
- ▶ `com.ibm.collaboration.realtime.people/liveNameResolverInternetFilter=edcom.de, timetoact.de`
 - *Inbox whitelist domain (Notes 8.5.1+)*
- ▶ `com.ibm.collaboration.realtime.people/liveNameResolverInternetFilter=non-existent-domain-name`
 - *Disable Inbox awareness for ALL SMTP email addresseswhitelist domain (Notes 8.5.1+)*
- ▶ http://www-10.lotus.com/ldd/stwiki.nsf/dx/Optimizing_Name_Lookup_Clients

Sametime Client(s) - *Vorgabeparameter*



▶ Sametime Audio/Video Parameter

- ▶ `com.ibm.collaboration.realtime.telephony.softphone/suppress.failed.sip.registration=true`
- ▶ `com.ibm.collaboration.realtime.community/suppress.failed.sip.registration=true`
 - ▶ *Meldungen bei Anmeldeprobleme am Sametime Media SIP Proxy Registrar werden unterdrückt*
- ▶ *"Unable to initialize Computer, and it can't be used at this time.
com.ibm.collaboration.realtime.telephony.softphone.SIPPhoneException:
Processed unsuccessful response: SIP/2.0 401 Unauthorized"*



- ▶ *Unable to initialize computer and it can't be used at this time. SIP 401 SIP 503*

Sametime Client(s) – *Problemsuche/Debug*



➤ Probleme beim Sametime Client analysieren

- ▶ [Logging and tracing on Lotus Sametime Connect](#)
- ▶ [Collecting data for embedded Sametime client for Notes 8.x clients](#)
- ▶ DEBUG Parameter = ... userdata/workspace/.config/rcpinstall.properties
 - ▶ **Level = WARNING / INFO / DETAIL / FINE / FINER / FINEST**
- ▶ `com.ibm.collaboration.realtime.level=FINE`
- ▶ `com.lotus.sametime.level=FINE`
- ▶ `com.ibm.collaboration.realtime.policy.sametime.managedsettings.level=FINE`
- ▶ `com.ibm.collaboration.realtime.telephony.level=FINE`
- ▶ `com.ibm.collaboration.realtime.telephony.softphone.level=FINE`

➤ XML Protokoll (am besten mit Browser öffnen)

- ▶ .../data/workspace/logs/*.xml
- ▶ Menü: *Help > Support > View Log and View Trace*

Agenda

- › IBM Sametime 8.5.x Komponenten
- › LDAP Basics
- › Verteilung der Sametime Einstellungen (Vorbereitung)
- › **Umstellung ST Community Server auf LDAP**
- › **Praktische Erfahrungen und Tipps**
 - Policy, Business Card, LDAP Performance

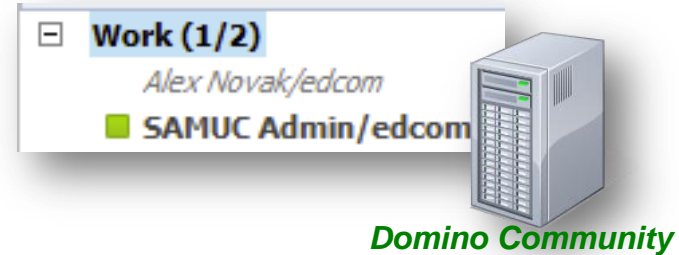
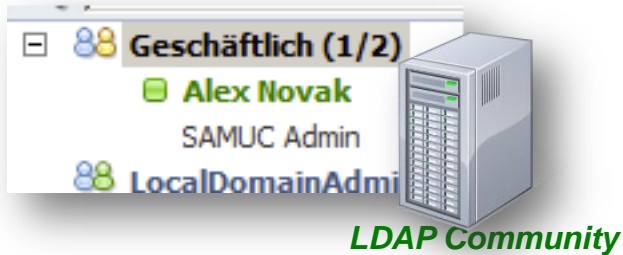
IBM Sametime LDAP Migration



"THE COMPUTER SAYS I NEED TO UPGRADE MY BRAIN
TO BE COMPATIBLE WITH ITS NEW SOFTWARE."

ST Migraton 2 LDAP - Überlegungen

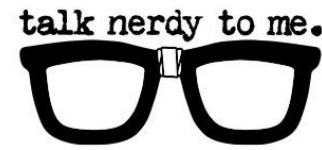
- › „**Awareness Lookup**“ zwischen zwei verschiedenen Community Server (LDAP vs. Domino) ist aufgrund der unterschiedlichen Namen ebenfalls **nicht** möglich



- › AdHoc Umstellung der Kontaktliste ist **notwendig**
- › **Achtung**: VPUuserinfo, stnamechange & stpolicy haben auf allen Sametime Server die gleiche Replica ID

Replica ID: C1257BAB:0947202E
ODS version: 51

ST Migraton 2 LDAP – Checklist



	Aufgabe	„RePlace“	„ReInstall“
1	Konfliktdialog für Kontaktliste unterdrücken	✓	✓
2	Backup	✓	✓
3	Directory Assistance – LDAP Config	✓	X
4	STConfig.nsf – LDAP Dokument erstellen	✓	X
5	Sametime.ini ändern	✓	X
6	Notes.ini ändern	✓	X
7	UserInfoConfig.XML auf LDAP ändern	✓	X
8	Sametime Server deinstallieren	X	✓
9	Sametime Server neu installieren	X	✓
10	Sametime 8.5.2+ Nacharbeiten (LDAP)	✓	✓
11	Kontaktlisten (Vpuserinfo.nsf) auf LDAP umstellen	✓	✓

➤ „RePlace“: Replacing the Domino Directory with an LDAP directory

➤ „ReInstall“: Migrating a Community Server from a Domino Directory to Domino LDAP

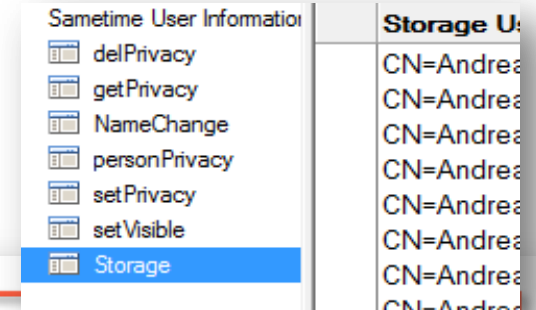
ST Migraton 2 LDAP

➔ **Konfliktdialog (Buddylist) unterdrücken**

➤ Sametime Benutzer Kontaktliste

- ▶ ST Community Server: vuserinfo.nsf
- ▶ Client: buddylist.xml

```
</communities>
<contactList>
  <group expanded="true" name="Geschäftlich" type="private">
    <user communityId="st2093949881" displayName="Alex Novak" id="CN=Alex Novak,O=edcom"/>
    <user communityId="st2093949881" displayName="SAMUC Admin" id="CN=SAMUC Admin,O=edcom"/>
  </group>
  <group communityId="st2093949881" expanded="true" id="CN=LocalDomainAdmins" name="LocalDomainAdmins" type="public"/>
</contactList>
</imClientConfig>
```



➤ „buddylist“ Konfliktdialog am Client unterdrücken

- ▶ Managed-settings.xml

```
<settingGroup name="com.ibm.collaboration.realtime.imhub">
  <setting name="showBuddyListConflictDialog" value="false" isLocked="true"/>
  <setting name="buddyListConflictPref" value="replaceLocal" isLocked="true"/>
  <setting name="showExternalModificationDialog" value="false" isLocked="true"/>
</settingGroup>
```

ST Migraton 2 LDAP

→ Backup der Sametime Daten/Datenbanken

- ▶ **STAuths.nsf, STAutht.nsf**
 - ▶ Secrets & Tokens Datenbank
 - ▶ Authentifizierung für Sametime (via DB Replikation)
- ▶ **STCenter.nsf**
 - ▶ Sametime Startseite
- ▶ **STConf.nsf**
 - ▶ Sametime Online Meetings
- ▶ **STConfig.nsf**
 - ▶ Sametime Konfiguration
- ▶ **STCs.nsf**
 - ▶ Sametime Reservierung (für Online Meetings vom Notes Client Kalender)
- ▶ **STLog.nsf**
 - ▶ Protokolldatenbank (Chat, Meetings, Statistik)
- ▶ **STNameChange.nsf**
 - ▶ Namensänderung für VPUserinfo.nsf
- ▶ **STPolicy.nsf**
 - ▶ Sametime Policy
- ▶ **STReg.nsf**
 - ▶ Selbstregistrierung für ST Benutzer
- ▶ **STSrc.nsf**
 - ▶ Sametime Resources (für Instant Meetings und ST Connect für Browser)
- ▶ **VPUserinfo.nsf**
 - ▶ Kontaktlisten, Privacy Informationen, StatusMeldungn der Benutzer
- ▶ **UserInfoConfig.XML**
 - ▶ Business Card "servlet" Konfigurationsdatei
- ▶ **Sametime.ini**
 - ▶ Sametime Konfiguration
- ▶ **Notes.ini**
 - ▶ Domino Konfiguration

→ Oder FULL BACKUP (Domprog, Domdata)

ST Migraton 2 LDAP „replace“

→ *Directory Assistance konfigurieren*



▶ Directory Assistance (da.nsf) mit LDAP Verzeichnis/Server verbinden

- ▶ Web Access auf LDAP Authentifizierung umstellen
- ▶ Nur notwendig wenn der Domino ST Server (names.nsf) andere User hat als das LDAP
- ▶ Laut IBM Empfehlung sollte das „lokale“ **Domino Adressbuch** (NAMES.NSF) **leer** sein (eigene Domäne)
 - ▶ *„Leaving the local address books non-empty on the Community Server might cause Single Sign-On issues and slower Domino server initialization and shutdown, but the basic Sametime functionality should not be affected“*
- ▶ **NOT SUPPORTED** – BUT WORKS !!
 - ▶ **Sametime = LDAP Server** (Performance Leaks)

ST Migraton 2 LDAP „replace“

→ *Stconfig.nsf anpassen*



➤ LDAP Dokument erstellen

➤ LDAP Filter anpassen

8.5.2 = ObjectguID für Personen & Gruppen hinzufügen

- ▶ cn, givenname, uid, displayname, ObjectguID=dominoUNID
- ▶ Objectclass = organizationalPerson (8.5.x) → inetOrgPerson (8.5.2)

➤ Details → siehe Nacharbeiten

ST Migraton 2 LDAP „replace“

→ *Sametime/Notes.INI anpassen*



› Sametime.ini

[Debug]

ST_LDAP_BROWSE_ENABLED=1

VPDIR_IGNORE_BROWSE=0

(Verzeichnissuche für LDAP muss aktiviert werden – ansonsten inaktiv)

[Directory]

DirectoryType=LDAP

*(vorher **DOMINO**)*

[Policy]

POLICY_DIRECTORY_BB_IMPL=com.ibm.sametime.policy.directorybb.Ldap.DirLdapBlackBox

(vorher POLICY_DIRECTORY_BB_IMPL=com.ibm.sametime.policy.directorybb.notes.DirNotesBlackBox)

› Notes.ini

SametimeDirectoryType=LDAP

*(vorher **DOMINO**)*

ST Migraton 2 LDAP „replace“

→ „Business Card“ Datei ändern



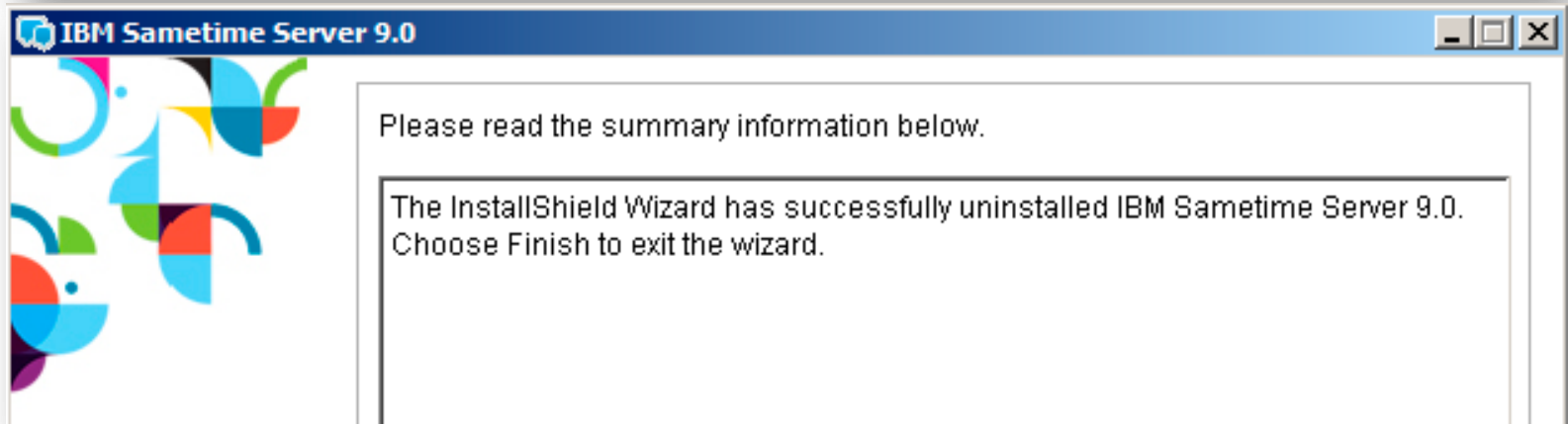
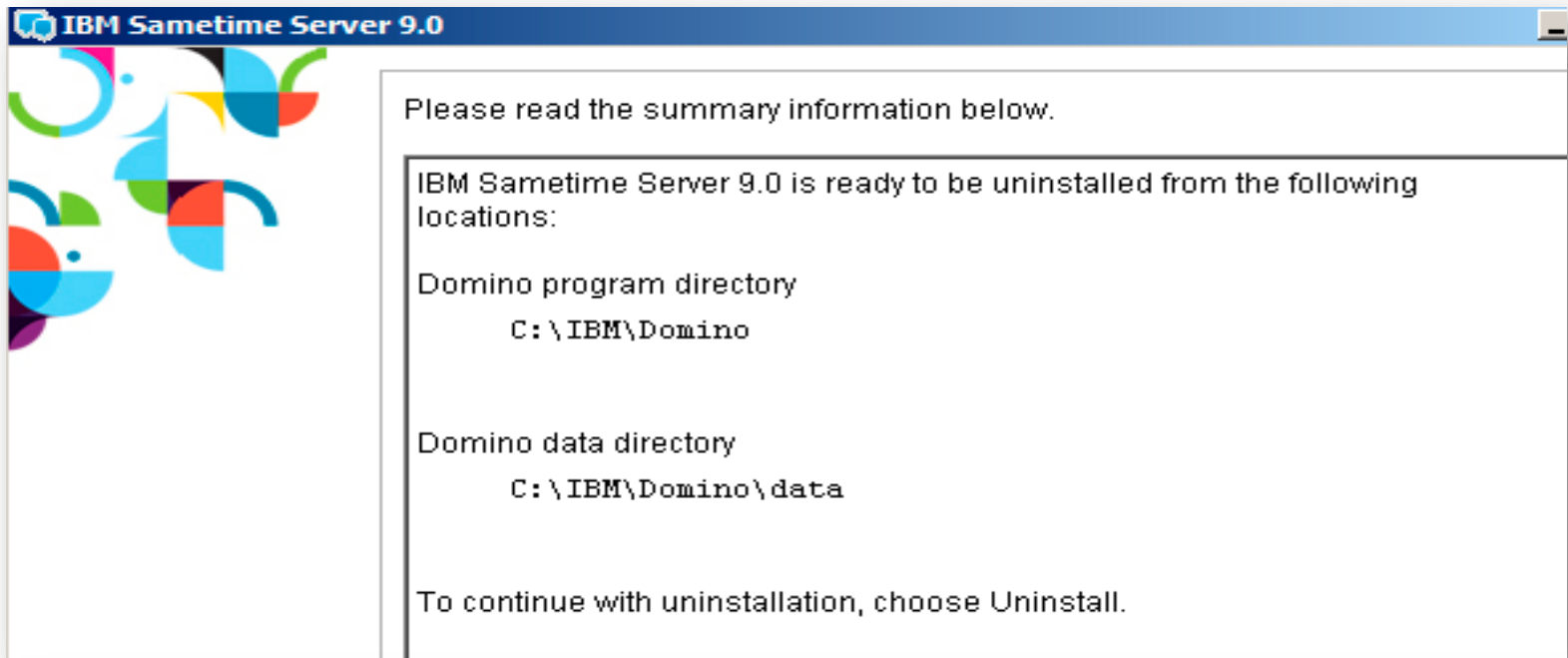
► „Business Card“ Datei UserInfoConfig.XML

- ▶ Werte in der UserInfoConfig.xml auf LDAP umstellen
- ▶ Vorgabewerte von IBM kopieren/download [Reconfiguring the UserInfo servlet after switching from Domino to LDAP](#)
- ▶ Sametime Business Card Configuration aufrufen und nochmals speichern
 - ▶ SSC oder in ST Web Administration

```
<UserInformation>
<ReadStConfigUpdates value="true"/>
<Resources>
<Storage type="LDAP">
<StorageDetails HostName="hera.haifa.ibm.com" Port="389" Username=""
Password="" SslEnabled="false" SslPort="636" BaseDN="" Scope="2"
SearchFilter="
(&amp;(objectclass=organizationalPerson)(|(cn=%s)(givenname=%s)(sn=%s)
(mail=%s)))"/>
</StorageDetails tag to support another ldap server
```

ST Migration 2 LDAP „reinstall“

→ *Sametime deinstallieren*



ST Migration 2 LDAP „reinstall“

➔ *Sametime neu installieren*

➤ Neu Installation

- ▶ Mit/ohne SSC
- ▶ LDAP ...
- ▶ Tunneling ...
- ▶ V8.5
 - ▶ SlideShare Server ...
 - ▶ „Classic Meeting“

Use the Sametime System Console?

Yes

No

Select the directory to use for collaboration.

Domino Directory

LDAP Directory

LDAP Server Name

MyLdap.novi.local

Port Number for LDAP

389

Advanced LDAP Configuration

Select Advanced LDAP configuration to specify settings for the Sametime server to use to access the LDAP directory.

ST Migration 2 LDAP „reinstall/replace“

➔ *Server Nacharbeiten Sametime.ini*

➤ Eintrag: **VP_Security_Level**

- ▶ Vorgabewerte Sametime 8.5 = **7000**
- ▶ Vorgabewerte Sametime 2.5 bis 8.0 = **25**
- ▶ Notes Basic Sametime Client (NIM) = **6510**

- ▶ Problem wenn zwei (oder mehr) Server **unterschiedliche** Werte haben
 - ▶ I StCommunity *Rejecting server* 192.168.87.42 - reported security level=6510
 - ▶ I StCommunity *Rejecting server* 192.168.87.42 - reported security level=6510

- ▶ **LEVEL** (z.B. 6510) für Awareness Community **anpassen**
 - ▶ I StCommunity *Logged* in to server 192.168.87.41

➤ Eintrag: **ST_COMMUNITY_ID=MyST**

➤ Eintrag: **ST_RESOLVE_WHITELIST=*.edcom.de,*.timetoact.de**

ST Migration 2 LDAP „reinstall/replace“

→ *Server Nacharbeiten*

➤ Umleitung von Classic Meeting (HTTP Service) auf den neuen Meeting Websphere Server

▶ ST Community Server

▶ Sametime.ini:

[Config]

VPMX_HTTP_REDIRECT_ENABLE_RELATIVE=0

▶ Redirect URL: `/stconf.nsf/frmConference*` → `http://meetinghost/stmeetings/*`

▶ ST Meeting Konfiguration (in der SSC)

▶ `restapi.migrationUrl=http://stcommunity.edcom.local`

▶ *Setting up URL redirects to migrate meetings*

ST Migration 2 LDAP „reinstall/replace“

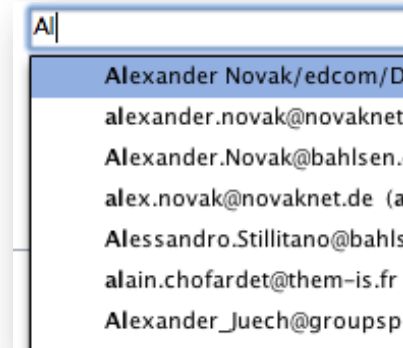
➔ Server Nacharbeiten für Domino LDAP

➤ LDAP Filter erweitern (Sametime Anmeldung)

- ▶ **dominoUNID** = Notes Doc ID des Personendokumentes (Neu seit 8.5.2)
- ▶ **displayname** = Notes hierarchische Name (cn/ou/o/c)
- ▶ **uid** = Kurzname / Shortname
- ▶ **MyField** (z.B. Personalnummer) = eigenes Feld im LDAP (muss im LDAP Schema existieren)

➤ Search filter for resolving person names (Namenssuche)

- ▶ (&(objectclass=inetOrgPerson)(|(displayname=%s*)(uid=%s*)))
- ▶ %s* (STERN) bedeutet das ab der ersten Zeicheneingabe gesucht wird
➔ minimale Zeichenangabe wird vom LDAP Server vorgegeben



➤ Search filter to use when resolving a user name to a distinguished name (Authentifizierung)

- ▶ (&(objectclass=inetOrgPerson)(|(displayname=%s)(dominoUNID=%s)(uid=%s)))

ST Migration 2 LDAP „reinstall/replace“

➔ Server Nacharbeiten für Domino LDAP

- Je nach Notesversion gibt es Probleme mit der Awareness Darstellung im Notesclient

Fw: Using the Lotus Notes single user to m

✉ Alexander Novak to: Alexander Novak

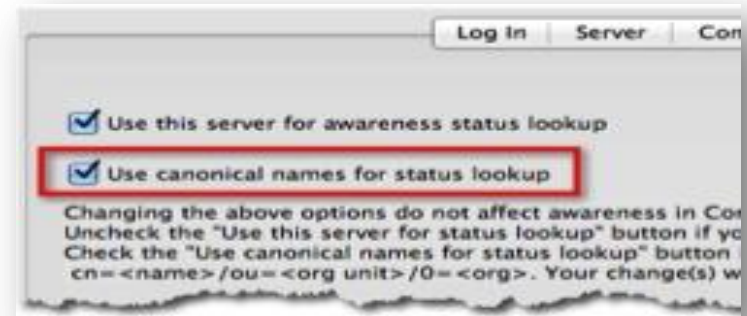
✉ Alexander Novak/edcom/DE

✉ Alexander Novak/edcom/DE@TIMETOACT,

- Lösung: Notesnamen (kanonisch) in die Suchfilter aufnehmen

➤ Am Notes Client

- ▶ Notes.ini: `IM_USE_CANONICAL_NAME=1`
- ▶ com.ibm.collaboration.realtime.community/useCanonicalNamesOverride=3



➤ Am Sametime Server (*Best Practice !*)

- ▶ LDAP Search filter for resolving person names (lookup): `(displayname=%s*)`

Search Filters

Search filter for resolving person names:

`(&(objectclass=inetOrgPerson)((uid=%s*)(displayname=%s*)(mail=%s*)(sn=%s*)(cn=%s*)(dominounid=%s)))`

Search filter to use when resolving a user name to a distinguished name:

`(&(objectclass=inetOrgPerson)((mail=%s)(displayname=%s)(cn=%s)(uid=%s)))`

Search filter for resolving group names: `(&(objectclass=groupOfNames)((cn=%s*)(dominounid=%s)))`

ST Migration 2 LDAP „reinstall/replace“

➔ *Server Nacharbeiten für Domino LDAP*

➤ Sametime **Homeserver Feld** muss bei Bedarf gesetzt werden

- ▶ Leitet Benutzer immer auf Homeserver um
- ▶ LDAP Feld = **sametimeserver**
- ▶ LDAP Dokument in Sametime (**stconfig.nsf**)

before storing in your mailfile:

Collaboration

Instant messaging server: chat.munich.novi.local

```
maildomain=HIAMS-EU
mailserver=CN=HASE-MAIL01,O=HASE
mailfile=mail\utest1
sametimeserver=CN=XXXX
roaminguser=0
httppasswordchangedate=20121025114024Z
```

Attribute used to distinguish between two similar person names: mail

Attribute of the person entry that defines the person's e-mail address: mail

The person object class used to determine if an entry is a person: organizationalPerson

Groups

Attribute used to distinguish between two similar group names: cn

The attribute of the group entry that defines the group's name: cn

Attribute in the group object class that has the names of the group members: member

The group object class used to determine if an entry is a group: groupOfNames

Home Server

Name of the Home Server Attribute: SametimeServer

Membership

GroupMembership: (&(objectclass=groupofnames)(member=%s))

BaseMembership:

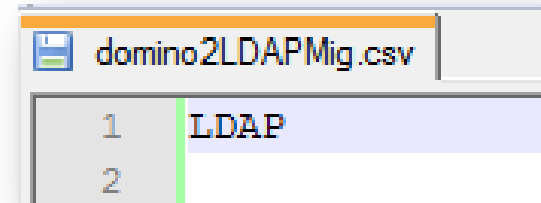
ST Migration 2 LDAP

➔ *Kontaktlisten umbenennen*

➤ Domino und HTTP starten

- ▶ STADDIN aus Notes.ini entfernen
- ▶ keine IM Funktion bis Namechange abgeschlossen ist

➤ **dom2LDAPMig.csv** erstellen und



➤ ... in **stnamechange.nsf** importieren

Neu		Löschen	
<input type="checkbox"/>	Name	Status	Beschreibung
<input type="checkbox"/>	30. Juli 2013 10:01:35	Beendet	Migration VPUser 2 LDAP

ST Migration 2 LDAP






→ Kontaktlisten umbenennen

› Sametime Namechange Tasks starten

- ▶ ... \domprog\stnamechange ... \domprog ... \domdata
 - ▶ **Offline** (zumindest ST Services/HTTP dürfen nicht laufen)
- ▶ Erstellt Backup der „alten“ VPUserinfo.nsf
 - ▶ ... \domdata\vpuserinfo.nsf123456789
- ▶ Kontrolle der Migration
 - ▶ ... \domprog\Trace\
name_change_summary_report<data>.log

```
Name Conversion Utility SAMETIME8.5.2.1_20120612.1500 started
Reading tasks:
- read LDAP task
processing vpuserinfo.nsf:
- there were no errors
Statistics:
- number of users scanned: 334
- number of users that their document was changed: 334
- number of users that had an error during their processing: 0
Name Conversion Utility completed successfully
```

- ▶ **Kopie** der **LDAP – VPUSERINFO** erstellen und für Kontaktlist
RESTORE aufheben

	Sametime Self Registration	streg.nsf	C:\Progr
	Sametime Resources	stsrc.nsf	C:\Progr
	ST User Information - LDAP Backup 30.7.13	vpuserinfo-ldap	C:\Progr
	Sametime User Information	vpuserinfo.nsf	C:\Progr
	Domino Web Administrator (8)	webadmin.nsf	C:\Progr

ST Migration 2 LDAP

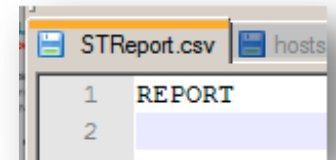
→ *Kontaktlisten Debugging*

› Sametime.ini – erstellt ein Trace/debug.log

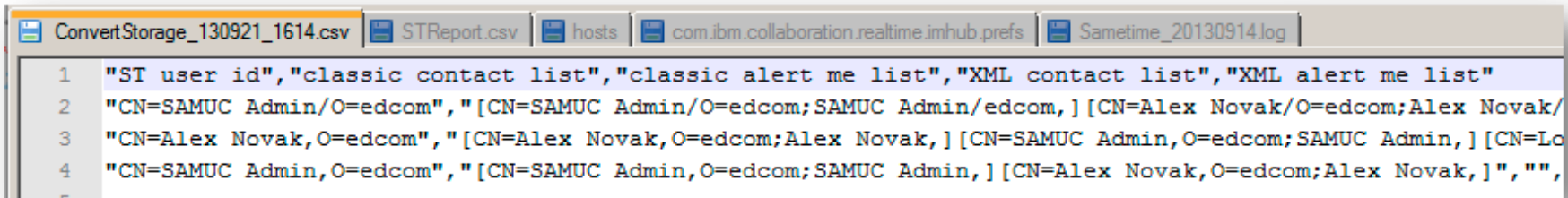
```
[Debug]
VP_NCSA_TRACE=1
[Config]
NC_LOCAL_CONVERSION=1
```

› NameChange Erweiterungen – ST 8.5.2

- ▶ NameChange Export Funktion der Sametime Kontaktlisten
- ▶ CSV Task "REPORT"
 - ▶ `ConvertStorage_<date>.csv` → Kontaktliste
 - ▶ `ConvertPrivacy_<date>.csv` → Privacy & alert me



1	REPORT
2	



```
1 "ST user id","classic contact list","classic alert me list","XML contact list","XML alert me list"
2 "CN=SAMUC Admin/O=edcom", "[CN=SAMUC Admin/O=edcom;SAMUC Admin/edcom, ] [CN=Alex Novak/O=edcom;Alex Novak/
3 "CN=Alex Novak,O=edcom", "[CN=Alex Novak,O=edcom;Alex Novak, ] [CN=SAMUC Admin,O=edcom;SAMUC Admin, ] [CN=Lo
4 "CN=SAMUC Admin,O=edcom", "[CN=SAMUC Admin,O=edcom;SAMUC Admin, ] [CN=Alex Novak,O=edcom;Alex Novak, ]", "",
```

- ▶ Name Change tool is available with enhanced reporting features

ST Migration 2 LDAP

➔ *Kontaktlisten Debugging*

➤ NameChange Erweiterungen – ST 8.5.2

- ▶ CSV Task **“REPLACE_HOST“**
- ▶ Umzug auf neuen ST Server
- ▶ name change fix **GMOH-8LPBE4**

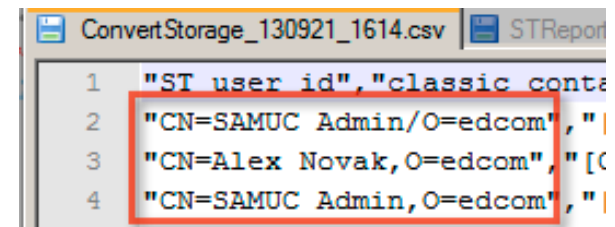
```
REPLACE_HOST
"OldCommunityHost1.com","Newcommunityhost.com"
"OldCommunityHost2.com","Newcommunityhost.com"
"OldCommunityHost3.com","Newcommunityhost.com"
"OldCommunityHost4.com","Newcommunityhost.com"
```

➤ NameChange Erweiterungen – ST 9

- ▶ CSV Task **“RESOLVE“ (Sametime 9 ONLY)**
 - ▶ Ersetzt Feld „ST user id“ durch directory user id
 - ▶ Keine Namechange Task mehr wg. **User Rename**
 - ▶ „CN=Alex Novak,O=edcom“ >>> „A45F0A5C5B04E536C1257BB7004261BB“

- IBM Directory Server: **ibm-entryUUID**
- Domino® LDAP: **dominounid**
- Novell Directory Server (NDS): **guid**
- SunOne: **nsuniqueid**
- Active Directory: **objectGUID**

```
CN=Alex Novak,O=edcom
dominounid=A45F0A5C5B04E536C1257BB7004261BB
```



```
ConvertStorage_130921_1614.csv | STReport
1 "ST user id","classic conta
2 "CN=SAMUC Admin/O=edcom", "|
3 "CN=Alex Novak,O=edcom", "[C
4 "CN=SAMUC Admin,O=edcom", "|
```

Agenda

- › IBM Sametime 8.5.x Komponenten
- › LDAP Basics
- › Verteilung der Sametime Einstellungen (Vorbereitung)
- › Umstellung ST Community Server auf LDAP
- › **Praktische Erfahrungen und Tipps**
 - Policy, Business Card, LDAP Performance

Sametime Community Server

ST Policy

- ▶ Sametime Richtlinien werden alle **60 Min.** beim Client ausgelesen und ggfls aktualisiert (oder beim Client Start)

- ▶ Ohne SSC Anbindung

- ▶ ..\domdata**STpolicy.nsf**

- ▶ **Sametime.ini**

- [Policy]

- POLICY_DB_BB_IMPL=com.ibm.sametime.policy.databasebb.**Notes**.Db**Notes**BlackBox

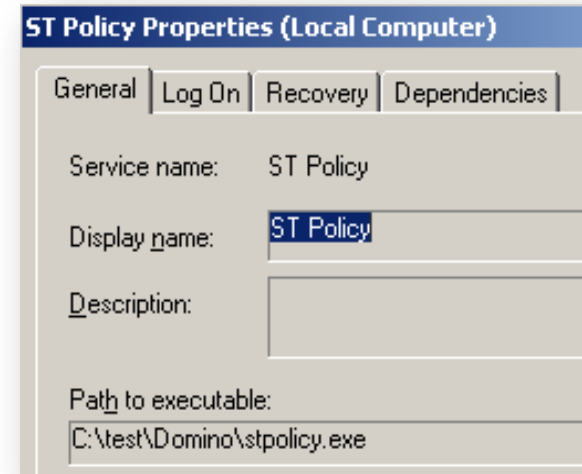
- ▶ Mit SSC Anbindung

- ▶ ..\domprog**Policies.user.XML**

- ▶ **Sametime.ini**

- [Policy]

- POLICY_DB_BB_IMPL=com.ibm.sametime.policy.databasebb.**xml**.Db**Xml**BlackBox



 [Understanding, configuring and troubleshooting Sametime policies](#)

Sametime Community Server

ST Policy



- **Richtlinien** in der SSC dürfen **keine Sonderzeichen** im Titel enthalten, da sonst die **Synchronisation** zwischen Community Server und Sametime System Console **nicht mehr funktioniert**.

<input type="checkbox"/>	STPolicyDataSource	jdbc/STPolicyDataSource	Node=w28-an-sttestSSCNode,Server=STConsoleServer	(XA) SSC DB2 JDBC Driver Provider (XA)	console DataSource
<input type="checkbox"/>	STPolicyDataSource	jdbc/STPolicyDataSource	Node=DMgrNode	SSC DB2 JDBC Driver Provider (XA)	console DataSource
<input type="checkbox"/>	STPolicyDataSource	jdbc/STPolicyDataSource	Node=meetingSTMNode1,Server=STMeetingServer	DB2 Universal JDBC Driver	meeting DataSource

➤ Policy Debug (Sametime.ini)

- ▶ [Debug]
POLICY_DEBUG_LEVEL= 1 / 3 / 5 (all messages)
ST_POLICY_NOTES_GROUPS=1
- ▶ Protokolle: ...\\Domprog\\TRACE\\STPolicy*.txt

Sametime Community Server

Business Card



› In der Business Card Funktion können Benutzer **Bilder** zugewiesen werden

- ▶ Domino: **image/jpeg**
- ▶ LDAP: **jpeg/binary**
- ▶ Foto darf max 45 kb sein und das Format **.gif / .jpeg**



› Dual Repository

- ▶ Textwerte aus LDAP, **Bilder** aus einer Notes Datenbank
- ▶ [Configuring a dual repository with LDAP and a custom application](#)

```
▶ Storage type="NOTES_CUSTOM_DB">
  <StorageDetails DbName="bcard.nsf" View="viewPerson"/>
  <Details>
    <Detail Id="Photo" FieldName="fldPhoto" Type="image/jpeg" />
  </Details>
</Storage>
<BlackBox type="NOTES_CUSTOM_DB" name="com.ibm.sametime.userinfo.userinfobb.UserInfoNotesCustomBB"
MaxInstances="4"/>
```

Sametime Community Server

Business Card



► Business Card Debug (Sametime.ini)

► [Debug]

USERINFO_OLICY_DEBUG_LEVEL= 1 / 3 / 5 (all messages)

► Protokolle

► ...\\domprog\trace\UserInfo_091021_1818.txt for the UserInfo Server Application

► ...\\domprog\trace\UserInfoHTTP_091231_2240.txt for the UserInfo servlet

► <http://servname/servlet/UserInfoServlet?operation=3&setid=1&userId=cn=Alex%20Novak,O=edcomloc>

► %20 deklariert Leerzeichen

► Ergebnis sollten die userinfo Daten sein

Alex Novak
+49 170 123456789
Ich bin verfügbar

Alex.Novak@edcom.local



```
- <userinfo>
- <user id="cn=Alex Novak,O=edcomloc">
+ <field name="Photo" type="image/jpeg"></field>
  <field name="Name" type="text/plain">Alex Novak</field>
  <field name="Company" type="" error="UNAVAILABLE"/>
  <field name="Title" type="" error="UNAVAILABLE"/>
  <field name="Telephone" type="text/plain">+49 170 123456789</field>
  <field name="MailAddress" type="text/plain">Alex.Novak@edcom.local</field>
  <field name="Location" type="" error="UNAVAILABLE"/>
</user>
</userinfo>
```

Sametime Proxy Server

Business Card Photo

▶ LDAP Resource – Feld PhotoURL (im Personendokument)

▶ <http://dom.novitest.local/stphoto/anovak@edcom.de.jpg>

▶ Anpassung der [UserInfoConfig.xml](#)

```
<Details>
  <Detail Id="MailAddress" FieldName="mail" Type="text/plain"/>
  <Detail Id="Name" FieldName="cn" Type="text/plain"/>
  <Detail Id="Title" FieldName="title" Type="text/plain"/>
  <Detail Id="Location" FieldName="postalAddress" Type="text/plain"/>
  <Detail Id="Telephone" FieldName="telephoneNumber" Type="text/plain"/>
  <Detail Id="Company" FieldName="ou" Type="text/plain" />
  <Detail Id="Photo" FieldName="jpegPhoto" Type="image/jpeg" />
  <Detail Id="PhotoURL" FieldName="PhotoURL" Type="text/plain"/>
</Details>
</Storage>
</Resources>
<ParamsSets>
  <Set SetId="0" params="MailAddress, Name, Title, Location, Telephone, Photo, PhotoURL, Company"/>
  <Set SetId="1" params="MailAddress, Name, Title, Location, Telephone, Photo, PhotoURL, Company"/>
</ParamsSets>
```

Calendar domain:	
Web page:	
Photo URL:	http://dom.edcomtest.local/userphoto/novak.jpg
Phonetic name:	

▶ IBM Connection Profiles (SSO required)

▶ <http://share.novitest.local/profiles>

Business card server	
Specify the server to use for client business card data:	
<input type="radio"/>	Sametime Proxy Server
<input checked="" type="radio"/>	Lotus Connections Server
*Lotus Connections Server URL:	
<input type="text" value="http://share.novitest.local/profiles"/>	

Sametime Meeting Server

Business Card Photo

▶ HTTP Resource

- ▶ <http://dom.novitest.local/stphoto/anovak@edcom.de.jpg>
- ▶ Meeting Configuration
 - ▶ userInfoRedirect = true
 - ▶ userInfoUrlTemplate = <http://dom.novitest.local/stphoto/{0}.jpg>

▶ IBM Connection Profiles (SSO required)

- ▶ <http://share.novitest.local/profiles>
- ▶ Meeting Configuration
 - ▶ userInfoRedirect = true
 - ▶ userInfoUrlTemplate = <http://share.novitest.local/profiles>
- ▶ IBM Connection Profiles Test URL
 - ▶ <http://share.novitest.local/profiles/photo.do?email=anovak@edcom.de>

Sametime LDAP Performance

Domino LDAP Server Tuning

› Notes.ini

- ▶ LDAPCache 256MB für Domino LDAP
 - ▶ LDAP_QRCACHE_SIZE=268435456
 - ▶ NLCACHE_SIZE=268435456
 - ▶ LDAPMaxWorkerThreads=80
- ▶ LDAPCache 500MB für Domino LDAP mit **viel verfügbaren Memory**
 - ▶ LDAP_QRCACHE_SIZE=536870912
 - ▶ NLCACHE_SIZE=536870912
 - ▶ LDAPMaxWorkerThreads=120

› Domino LDAP configuration and performance optimization

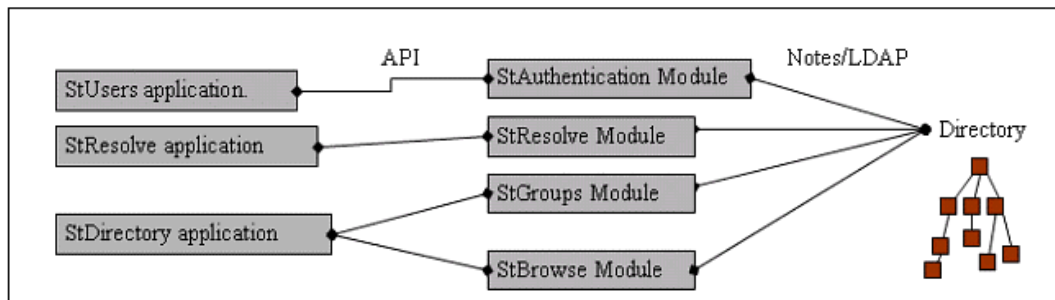
› Optimizing Name Lookup: Sametime server

Sametime LDAP Performance

Sametime LDAP Lookup Tuning

► Sametime.ini

- ▶ **ST_DB_LDAP_KEEPALIVE_INTERVAL** (*default = 1 Minute*)
 - ▶ The KEEPALIVE parameter defines the duration (in minutes) to wait while keeping alive messages that are sent by the Sametime Community server on idle LDAP connections.
- ▶ **ST_DB_LDAP_RESPRAY_INTERVAL** (*Minuten / default = 0/Disabled*)
 - ▶ Intervall in der eine LDAP Verbindung „dropped“ und wieder „re-established“ wird
 - ▶ Sinnvoll bei LDAP Zugriffen via Loadbalancer (wenn LDAP Service ist down)
- ▶ **ST_DB_LDAP_CONNECTIONS_NUMBER**
 - ▶ *Default = eine Verbindung pro Modul (Ausnahme: STAuthentication.dll = zwei Verbg.)*
 - ▶ Definiert die gleichzeitigen (concurrent) Verbindungen vom ST Server zum LDAP Dienst pro Sametime Modul (siehe Bild); Konfig in der stconfig.nsf



Sametime LDAP Performance

Sametime LDAP Lookup Tuning

Standardparameter Sametime.ini	Sametime 8,5	Sametime pre-8.5
ST_DB_LDAP_PENDING_MAX	60	10
ST_DB_LDAP_PENDING_LOW	30	5

› Sametime.ini

- ▶ **ST_DB_LDAP_PENDING_MAX** (default ST8.5 = 60)
 - › Definiert die maximale Anzahl der wartenden LDAP Anfragen pro Verbindung
- ▶ **ST_DB_LDAP_PENDING_LOW** (default ST8.5 = 30)
 - › Wird „PENDING_MAX“ Wert erreicht, werden solange KEINE LDAP Anfragen geschickt bis diese unter den „PENDING_LOW“ Wert fallen (<30)
- ▶ **ST_DB_LDAP_SSL_ONLY_FOR_PASSWORDS** (default = DISABLED)
 - › Verwendet SSL Verbindung NUR für die LDAP Authentifizierung; andere LDAP Anfragen sind unverschlüsselt (authorize-resolve, resolve, browse, and group content).
- ▶ **ST_DB_LDAP_SSL_SERVER_TIMELIMIT** (default = 600 Sekunden)
 - › Maximales Zeitlimit für einen LDAP Request und dessen Antwort
 - › Zeitlimit Einstellungen auch am LDAP Server beachten (geringste gewinnt)
- ▶ **ST_DB_LDAP_MAX_RESULTS** (default = 1000)
 - › Maximale Anzahl der LDAP Suchergebnissen **The default value is 1000.**
- ▶ **ST_DB_LDAP_MIN_WILDCARD** (default = 0 bzw. beim ersten Zeichen)
 - › Minimale Anzahl der LDAP Suchzeichen (Search A*)

Sametime LDAP Performance

Sametime LDAP Lookup Tuning

› Vorgabewerte

```
[Directory]
ST_DB_LDAP_CONNECTIONS_NUMBER=1
ST_DB_LDAP_KEEPALIVE_INTERVAL=1
ST_DB_LDAP_PENDING_LOW=5 bzw. 30 (ST 8.5)
ST_DB_LDAP_PENDING_MAX=10 bzw. 60 (ST 8.5)
ST_DB_LDAP_RESPRAY_INTERVAL=0
ST_DB_LDAP_MAX_RESULTS=1000
ST_DB_LDAP_MIN_WILDCARD=0
```

› **Empfehlung:** Verbesserung der LDAP Performance

```
[Directory]
ST_DB_LDAP_CONNECTIONS_NUMBER=1
ST_DB_LDAP_KEEPALIVE_INTERVAL=1
ST_DB_LDAP_PENDING_LOW=30
ST_DB_LDAP_PENDING_MAX=60
ST_DB_LDAP_RESPRAY_INTERVAL=60
ST_DB_LDAP_MAX_RESULTS=100
ST_DB_LDAP_MIN_WILDCARD=3
```

› LDAP Debug (Sametime.ini)

- ▶ [DEBUG]
VP_LDAP_TRACE=1
- ▶ Protokolle: ...\\Domprog\\TRACE\\STAuthentication*.log

Sametime Client „hang“

► Notes 8.5.3 FP2 hängt beim Login in Sametime

- ▶ SPR# ZSQN8WL65J
- ▶ Workaround: Disable automatic Login with Notesstart
- ▶ [Notes 8.5.3 Fix Pack 2 client with embedded Sametime hangs on startup](#)
- ▶ [LO70788: SAMETIME CAUSES NOTES 8.5.3 HANG AT STARTUP](#)
- ▶ [SPR # ZSQN8WL65J fixed in 9.0 release](#)

► Trojaner ?????

- ▶ Im Konkreten Kundenfall stürzte Notes 8.5.3 bei jeder Sametime Anmeldung **SOFORT** ab
- ▶ Vermutlich „doppelte“ Zugriffe auf die Sametime Preferences (XML)

Sametime Resources



› [Noviblog.net](#)

› [Lotus Sametime Wiki](#)

› [Lotus Sametime 8.5 Information Center](#)

› [Lotus Sametime Forum](#)

› [Sametime BLOG](#)





Beurteilung bitte nicht vergessen!

**IBM Sametime 8.5.x / 9.x
Umstellung auf LDAP Authentifizierung**