

TDI Solution Deep Dive

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About me

Christoph Stöttner

- **FRITZ & MACZIOL GmbH Germany**
- **Working with ICS products since 15 years**
- **Specialized in IBM Connections and IBM Domino Infrastructure**
- **Speaker at various events like ENGAGE, ICONUK, ConnectED**
- **Bavarian, Linux and Scripting Lover, Blogger**
 - **www.stoeps.de**
 - **scripting101.org**

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Configure a new TDI Solution Folder

- **Expand \$CONNECTIONS_ROOT/tdisol/tdisol.tar|zip**
 - **With 5.0 no special update packages on fix central**
 - **Updates are directly copied to \$CONNECTIONS_ROOT/tdisol**
- **TDI can be installed to any machine in your deployment**
 - **Often copied to DB2 host**
- **Check TDIPATH in tdienv.sh**
 - **export TDIPATH=/opt/IBM/TDI/V7.1.1**



profiles_tdi.properties

- **Main configuration with**
 - **LDAP Connection parameter**
 - **Host**
 - **Bind User**
 - **LDAP Search & Base**
 - **Database parameter**
 - **JDBC Connection string**
 - **User Credentials**
- **Dry run:**
 - **sync_updates_show_summary_only=true**



profiles_tdi.properties (2)

- **More interesting properties**
 - **sync_updates_hash_field**
 - **sync_store_source_url=true**
 - **sync_source_url_enforce=false**
 - **sync_source_url_override=false**
 - **perform_deletion_or_inactivate_for_sync=true**
 - **sync_delete_or_inactivate=inactivate**
- **Debugging**
 - **debug_managers|photos|pronounce|fill_codes**
 - **debug_draft|update_profile|collect|special**



sync_updates_hash_field

Setting in profiles_tdi.properties

- **Possible values**
 - **uid (default)**
 - **email**
 - **guid**

Matching accounts from LDAP and profilesDB are calculated with this value!

- **Possible Problems**
 - **User renaming**
 - **Reuse of mail address or shortname (uid)**



sync_updates_hash_field=uid

- **User is renamed**
 - **IBM Domino: UID/Shortname is multivalue**
 - **Microsoft Active Directory: 1. User deactivated, 2. new profile**
- **User retires**
 - **Inactivated or deleted user within Profiles**
- **User hires again**
 - **User is reactivated**
- **Other User with same UID hires**
 - **Will get all data from old user account**
 - **Splitting of this content is not possible**



sync_updates_hash_field=email

- **User is renamed**
 - 1. User gets inactivated**
 - 2. New profile will be created**
- **User retires**
 - **Inactivated or deleted user within Profiles**
- **User hires again**
 - **User is reactivated**
- **Other User with same mail address hires**
 - **Will get all data from old user account (picture, tags, community membership)**



sync_updates_hash_field=guid

- **User is renamed**
 - **All data synchronize with LDAP**
- **User retires**
 - **Inactivated or deleted user within Profiles**
 - **Within Domino the person document is deleted**
- **User hires again**
 - **Newly registered user has new guid**
 - **New profile**
 - **Duplicate login data -> no new profile**

You can use `populate_from_dn_file.bat/collect.dns` to sync this, because this always uses the UID for hashing



profiles_functions.js

- **JavaScript functions used within map_dbrepos_from_source.properties**
 - **Add function name with curly brackets**
 - **e.g. uid={func_map_to_db_UID}**
- **You can add your own:**

```
function function_setnull(fieldname) {  
    var result="";  
    return result;  
}
```

- **Removes value within peopleDB**



map_dbrepos_from_source.properties

- **Mapping of LDAP attribute to peopleDB fields**
- **value=null**
 - **peopleDB field is not set**
- **value=attributename (e.g. email=mail)**
- **Be careful to not override editable fields of profiles**
 - **description=null**
 - **experience=null**
- **value={functionname}**
 - **Value is calculated through JavaScript**



Batch-, Shellscripts

Linux/AIX - ensure that following files are executable:

- ***.sh**
- **netstore**



clearLock.sh

- **Running scripts within TDISol generate a lock-file**
- **When a script is interrupted the lock-file is still present**
 - **Blocks next run of the script (e.g. sync_all_dns.sh)**
 - **You can use clearLock.sh to remove the lock**



collect_dns.sh

- **Creates collect.dns**
 - **Contains \$DN of all users which are found through**
 - **LDAP Search Filter**
 - **LDAP Base**
 - **Bind User / Password**
- **Good starting point for troubleshooting**
 - **Run collect_dns.sh**
 - **Check if missed people are included in collect.dns**



populate_from_dn_file.sh

- **Reads from collect.dns**
- **Adds and updates persons in peopleDB**
- **Does not deactivate or delete users**
- **Always hashes on UID**
 - **Troubleshooting**
 - **Enable Debugging**
 - **Add only one or some users to collect.dns and check your logs**



delete_or_inactivate_employees.sh

- **copy samples/delete_or_inactivate_employees.in to TDISOL**
- **Format of delete_or_inactivate_employees.in**

```
$dn:cn=Christoph Stoettner,ou=users,o=stoeps  
uid:stoeps  
.
```

- **Deletes or inactivates the user**
- **Last idea during troubleshooting**
- **After this sync_all_dns mostly synchronizes the user**



sync_all_dns.sh

- **Create new users**
- **Update users**
- **Delete or inactivate users**
- **You should schedule a job to run this regularly!**
- **Check employee.adds, employee.error, employee.updates, employee.deletes, employee.skip after run**
- **Synchronize users based on sync_updates_hash_field**



Dump photos and pronounce to file

- **You can export through `dump_photos|pronounce_to_files.sh`**
- **Save a file with value of uid and matching `photo|pronounce`**
- **But you can use it too, if you already have photos of your users**
 - **Copy them to a folder**
 - **Rename them to `uid.jpg`**
 - **Create the matching script (use `dump_*.sh`)**
 - **Load the photos with `load_photos_from_files.sh`**



fill_*.sh

- **Some values within map_dbrepos_from_source.properties need extra data**
 - **Stored in additional tables within peopleDB**
- **You can add this content with the fill_*.sh scripts**
- **You have to copy samples/*_sample.csv to TDISOL**



Country

- **isocc.csv is Source file for fill_country.sh**
 - **isocc.csv only contains small country isocodes**
 - **e.g. us;United States or de;Germany**
 - **So if you do not sync small written Isocodes to Prof_CountryCode -> no Country is displayed**
 - **Create a script within profiles_functions.js to get only small char**
 - **Extend isocc.csv with more values which are stored in your LDAP Country field**



DepartmentInfo, Worklocation, OrganisationInfo, EmployeeType

- Like country following fields use additional tables:
 - deptinfo
 - orginfo
 - workloc
- So e.g. the value of workloc is not displayed, if empinst.workloc is empty

```
WM;5 Technology Park Drive;;Westford;Massachusetts;01886  
LM;On the Way to Kimballs;;Littleton;Massachusetts;01460  
CC;PO BOX2;Blue Sky BLVD;Coronado;California;92118  
RN;Tropicana Hotel;Casino Row;Reno;Nevada;89501
```



Example Profile

Profiles | My Profile | My Network | Directory

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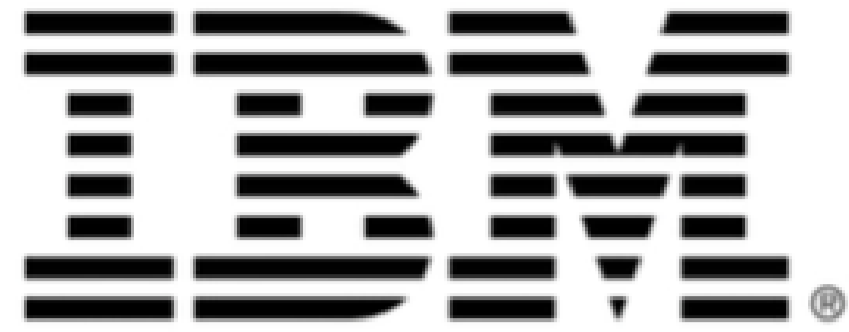
- **Only TwitterId and Colors are customized**



Debugging

- **Enable debugging parameters within profiles_tdi.properties**
 - e.g. `debug_managers=true`
- **Activate global debug in etc/log4j.properties**
 - **Change `log4j.rootCategory=INFO, Default`**
 - **`log4j.rootCategory=DEBUG, Default`**





Badges
Awards
Analytics
Boards

