

Verse Profiles

Profile Photo's Using Domino

An OpenNTF project by
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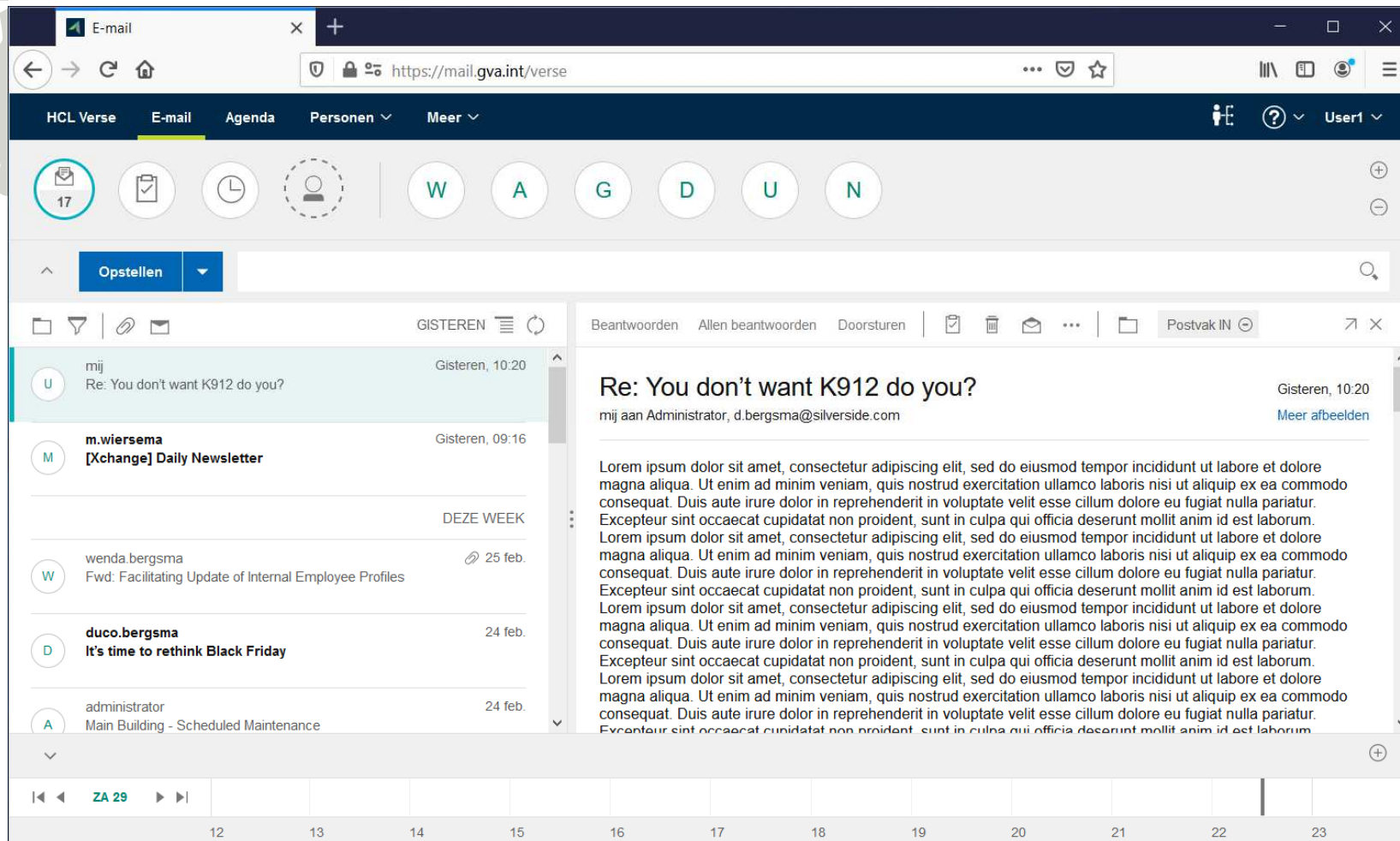
<https://www.linkedin.com/in/ducobergsma/>

Notes/Domino DevOp for 25 years

Several OpenNTF projects

DUCO Tools (Domino Utility Collection Objective)

The Blacksmith



The screenshot shows a web-based email client interface. At the top, there's a navigation bar with 'HCL Verse', 'E-mail', 'Agenda', 'Personen', and 'Meer'. Below this is a toolbar with icons for mail, calendar, and a 'WAGDUN' (Work Agenda) section. The main area is split into two panes. The left pane shows a list of emails with details like sender, subject, and time. The right pane shows a detailed view of an email with a subject line 'Re: You don't want K912 do you?' and a body of placeholder text. At the bottom, there's a calendar view showing the current date as 'ZA 29'.

DEZE WEEK

- mij** Re: You don't want K912 do you? Gisteren, 10:20
- m.wiersema** [Xchange] Daily Newsletter Gisteren, 09:16
- wenda.bergsm** Fwd: Facilitating Update of Internal Employee Profiles 25 feb.
- duco.bergsm** It's time to rethink Black Friday 24 feb.
- administrator** Main Building - Scheduled Maintenance 24 feb.

Re: You don't want K912 do you?
mij aan Administrator, d.bergsm@silverside.com

DEZE WEEK

12 13 14 15 16 17 18 19 20 21 22 23

E-mail photo.jpg (JPEG-afbeelding, 20 x +)

https://mail.gva.int/verse

HCL Verse E-mail Agenda Personen Meer

17

Opstellen

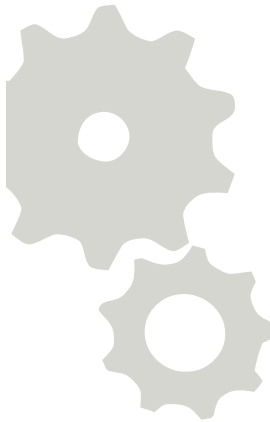
GISTEREN

mij Re: You don't want K912 do you? Gisteren, 10:20

m.wiersema [Xchange] Daily Newsletter Gisteren, 09:16



Verse Profiles - OpenNTF

- Display Contact photo and info
 - Single .nsf Domino web-app
 - Internal and External users
 - Collect and cache photo's from various sources
Files, NSF, LDAP, Web: LinkedIn, Gravatar, etc.
 - Modular; Add your own data-Connectors
 - It's Free!
- 



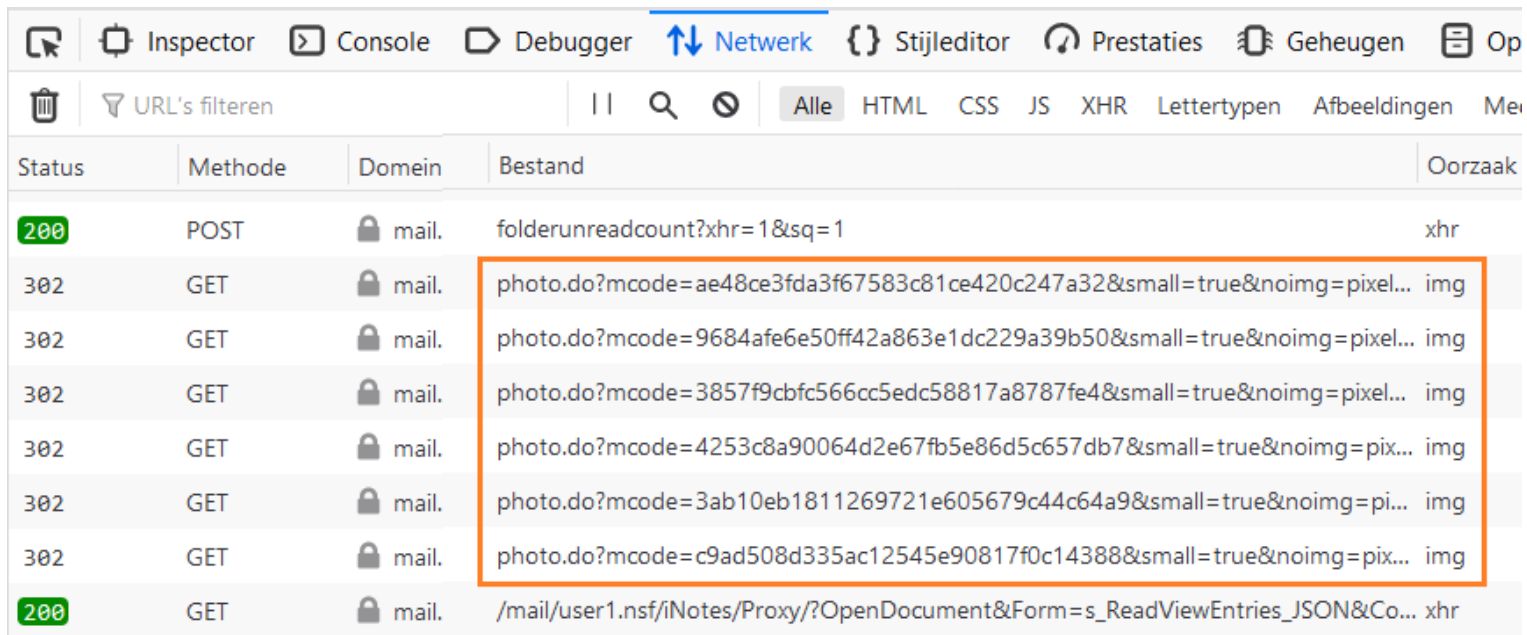
Verse Profiles - OpenNTF

Profile-photo look-up host in server notes.ini:

```
VOP_LLN2_BSSUISERVER_URL=https://mail.acme.org
```

Restart http task

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Status	Methode	Domein	Bestand	Oorzaak
200	POST	mail.	folderunreadcount?xhr=1&sq=1	xhr
302	GET	mail.	photo.do?mcode=ae48ce3fda3f67583c81ce420c247a32&small=true&noimg=pixel... img	
302	GET	mail.	photo.do?mcode=9684afe6e50ff42a863e1dc229a39b50&small=true&noimg=pixel... img	
302	GET	mail.	photo.do?mcode=3857f9cbfc566cc5edc58817a8787fe4&small=true&noimg=pixel... img	
302	GET	mail.	photo.do?mcode=4253c8a90064d2e67fb5e86d5c657db7&small=true&noimg=pix... img	
302	GET	mail.	photo.do?mcode=3ab10eb1811269721e605679c44c64a9&small=true&noimg=pi... img	
302	GET	mail.	photo.do?mcode=c9ad508d335ac12545e90817f0c14388&small=true&noimg=pix... img	
200	GET	mail.	/mail/user1.nsf/iNotes/Proxy/?OpenDocument&Form=s_ReadViewEntries_JSON&Co... xhr	



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What is the **mtime** parameter?

`/profiles/photo.do?mtime=ae48ce3fda3f675832&...`

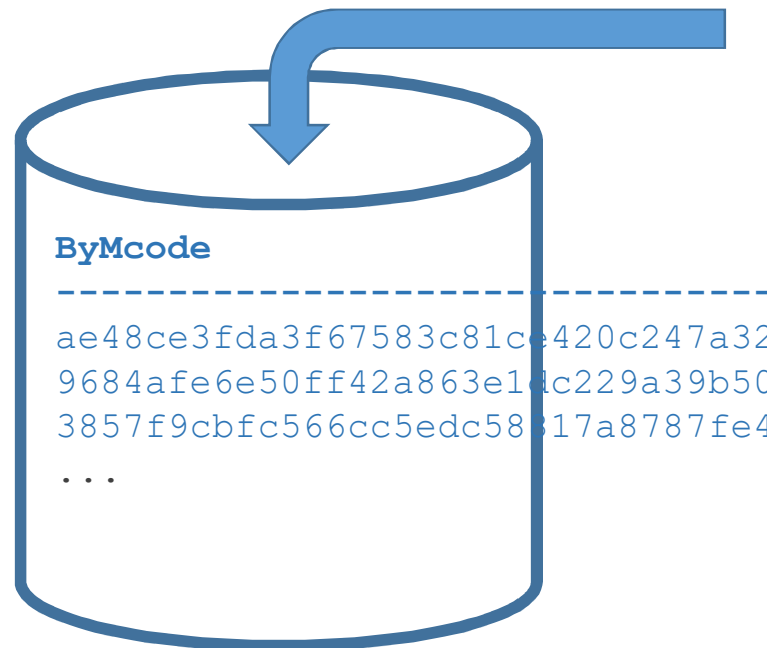
1st 32 chars of SHA256 hash of lowercase e-mail address

Unique code for an e-mail address

mtime is irreversible to an e-mail address ☹️

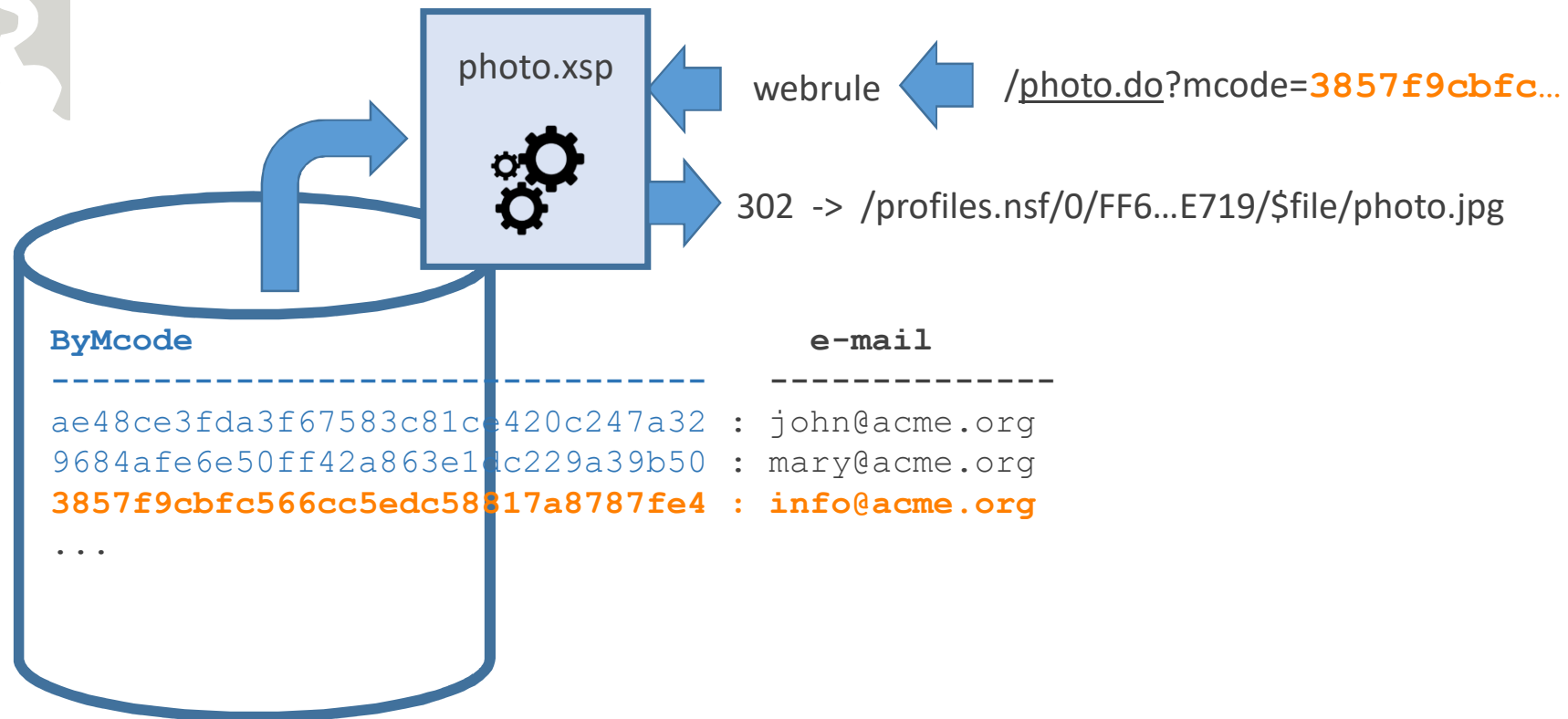
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*Get e-mail address
Calculate mcode
Store both in database*



e-mail

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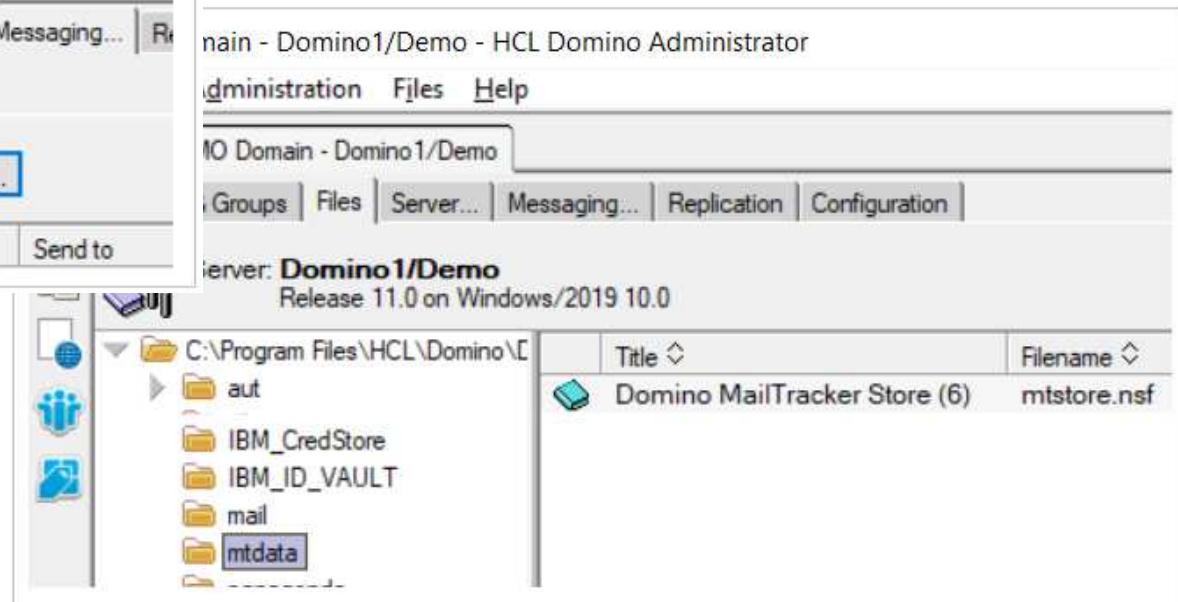
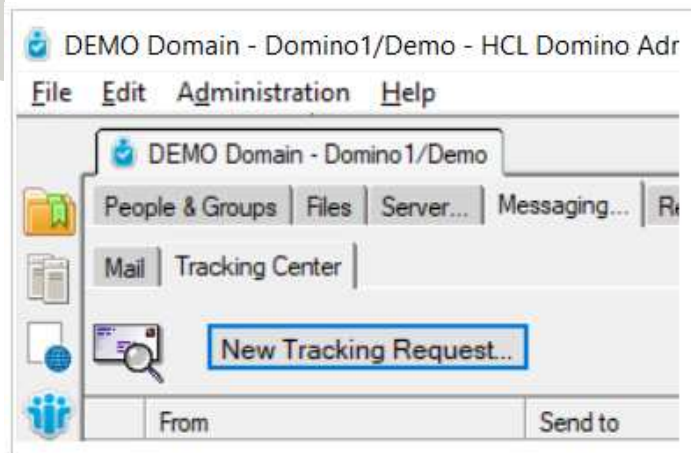
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How to put e-mail addresses in this database

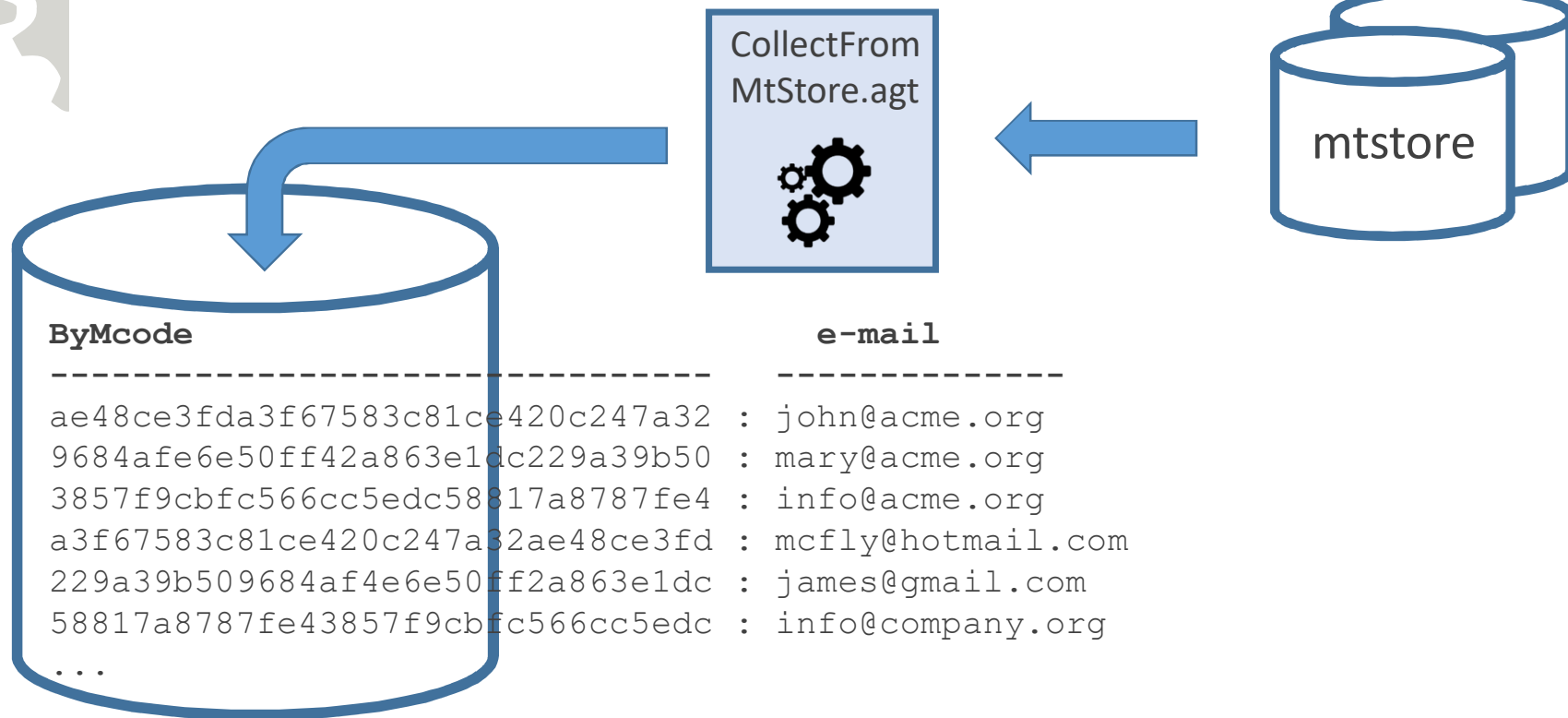
And what about external Contacts

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The Mail Tracking database



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E-mail addresses with mcode in database

How to add photo & contact info?

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Refresh Threshold Preferences:
UseCount > 10 (since last refresh)
LastRefresh > 3 months ago
LastSeen < 1 month ago



ByMcode	Count	LastRefresh	E-mail
ae48ce3fda3f67583c81ce420c247a32	1	2019-05-18	doe@acme.org
9684afe6e50ff42a863e1dc229a39b50	44	2020-02-01	mary@gmail.com
3857f9cbfc566cc5edc58817a8787fe4	1	2019-06-22	info@acme.org
0bb6e7921a114578d5b50a253f02951f	9	2020-01-05	john@ova.int
C4baf06dd27df97e84c6b1f0ce1883b1	12	2019-10-11	ann@f1.org
Fe4fc34a5b0fc342691c14212b87575e	88	2019-09-05	david123@gmail.com
Fb5e3876a21d57ce3bb6c63b1af71b23	10	2019-02-16	bill1913@gmail.com
2d5b74b03c9b54f3f59fe41979a455bd	2	2020-02-29	f531e01@mailier.com
...			

In RefreshQueue



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Connectors

- Modules
- Samples
- Customize
- Prioritize
- Comments
- Settings
- LotusScript code

Last run 22/02/2020 20:12:47

Create Enable Disable Preferences

Order		Name
10	<input checked="" type="checkbox"/>	File share
20	<input type="checkbox"/>	Domino NAB
30	<input checked="" type="checkbox"/>	ActiveDirectory LDAP
50	<input checked="" type="checkbox"/>	LinkedIn
60	<input type="checkbox"/>	Gravatar
99	<input type="checkbox"/>	Demo: Set random dummy photo for all

All contacts
Refresh Queue
Connectors
Logs

Name LinkedIn

Status Enabled

LogPrefix Li

OrderNr 50

Comments | Settings | Code

UserName =

Password =

li_at = AQEDAQMNJ7gFk2cXAAABcC-aIqQAAAFwfPIb6E0i

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Connectors

Initialized objects / vars

- NotesSession
- sEmail
- docContact
- Logger
- GlobalStore
- etc

Name	LinkedIn
Status	Enabled <input type="button" value="v"/>
LogPrefix	Li
OrderNr	50
<div style="display: flex; border-bottom: 1px solid black;"> <div style="border-right: 1px solid black; padding: 2px;">Comments</div> <div style="border-right: 1px solid black; padding: 2px;">Settings</div> <div style="padding: 2px;">Code</div> </div> <pre>Sub Initialize Dim oFetcher As New UrlFetcher Dim sCookies As String Dim sURL As String Dim vHeaders As Variant</pre>	

```

''' -----
''' Global vars/objects available in script-modules
Dim session As NotesSession      ''' NotesSession
Dim dbThis As NotesDatabase      ''' This database
Dim docCurrentScript As NotesDocument ''' Notesdocument pointing to current script-module
Dim sEmail As String             ''' email of contact to refresh
Dim docContact As NotesDocument  ''' NotesDocument of contact to refresh
Dim bFatalStop As Boolean        ''' Set this to 'true' to signal all refresh of all other contacts should stop
Dim GlobalStore List As Variant  ''' List you can store your persistent vars / objects in
Dim lstCookieJar List As Cookie  ''' Holds web-Cookies. Decl in SimpleCookieManager.
                                   ''' Used by ProcessReceivedCookies(), SetRequestCookies(), GetCookieByKey().
                                   ''' Declared in SimpleCookieManager ScriptLib
Dim logger As Variant            ''' Logger object; logger.logText("bla bla")
Dim JavaTools As JavaObject      ''' Contains two hash functions sha256 and MD5
Dim sTempDir As String           ''' System temp folder; ready to concat a filename to
Dim sModuleName As String        ''' Name of current module
Dim jsession As JavaSession      ''' Provide acces to java classes
''' -----

```

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Connectors

Classes available:

- LDAP Queries →
- MD5 / SHA256 hashing
- Web Queries
- Cookie handler
- Image resizing

```
''' Init
Dim sLdapUrl As String
Dim LdapServices As JavaObject
sLdapUrl = ScriptGetSetting("LdapUrl")
Call LdapServices.init(sLdapUrl, "", sLdapUsername, sLdapPassword)

''' Try to find e-mail address in LDAP
sLdapSearchFilter = ScriptGetSetting("LdapSearchFilter")
sLdapSearchFilter = Replace(sLdapSearchFilter,"%EMAIL%", lcase(sEmail) )
sLdapAttributes = "cn;title;telephoneNumber;jpegPhoto"
sLdapSearchBase = ScriptGetSetting("LdapSearchBase")
If LdapServices.Search( sLdapSearchBase, sLdapSearchFilter, sLdapAttributes) Then
...
```

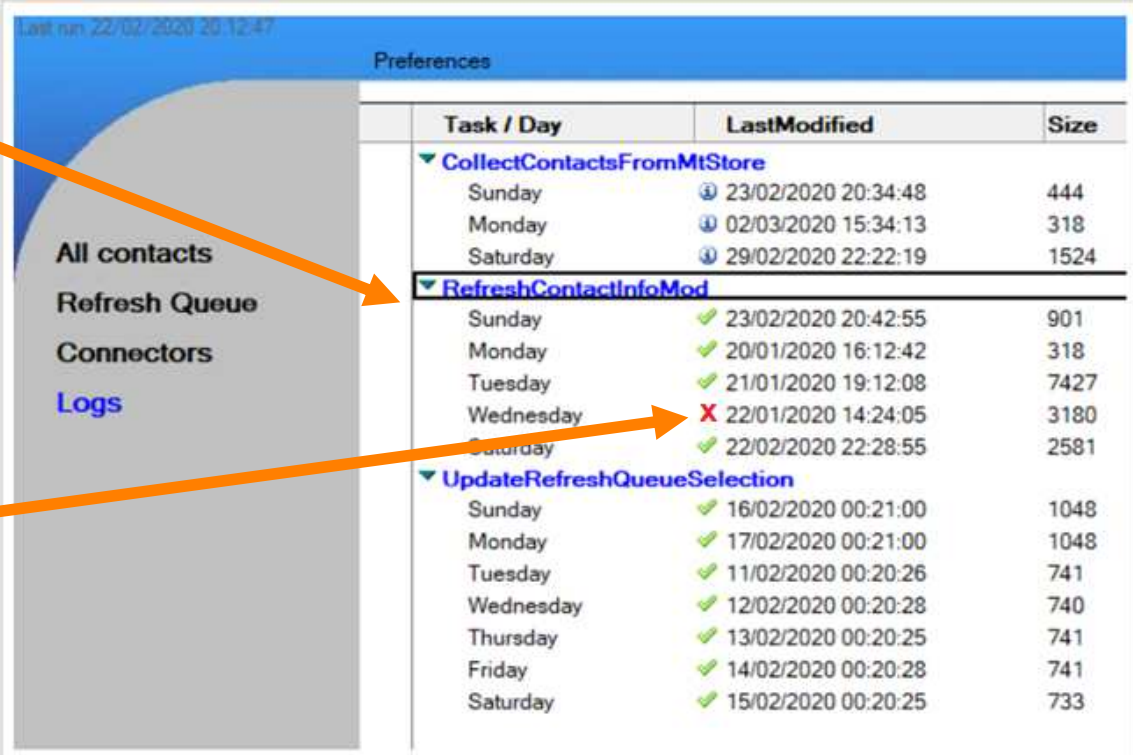
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Central logging

Connector logs

```
LogText("Hello world")
```

```
logger.SetStatus("FAILED")
```



Task / Day	LastModified	Size
CollectContactsFromMtStore		
Sunday	23/02/2020 20:34:48	444
Monday	02/03/2020 15:34:13	318
Saturday	29/02/2020 22:22:19	1524
RefreshContactInfoMod		
Sunday	23/02/2020 20:42:55	901
Monday	20/01/2020 16:12:42	318
Tuesday	21/01/2020 19:12:08	7427
Wednesday	22/01/2020 14:24:05	3180
Saturday	22/02/2020 22:28:55	2581
UpdateRefreshQueueSelection		
Sunday	16/02/2020 00:21:00	1048
Monday	17/02/2020 00:21:00	1048
Tuesday	11/02/2020 00:20:26	741
Wednesday	12/02/2020 00:20:28	740
Thursday	13/02/2020 00:20:25	741
Friday	14/02/2020 00:20:28	741
Saturday	15/02/2020 00:20:25	733



Verse Profiles - OpenNTF

Statistics

2.500 Internal users

35.000 Total contacts collected

1.500 External profile photo's found (Li, Gr)

13.000 External with UseCount > 10

7.000 External with UseCount > 50