

# Calendar connection for exchange

Configuration

### **Domain Configuration**

Through Exchange Sync Control Panel, admin can configure one or more Exchange domain

During the configuration task, some information are mandatory:

- REALM (i.e. @<this is the domain REALM>)
- Microsoft Exchange Version
- URL used for Exchange API
- Time Interval

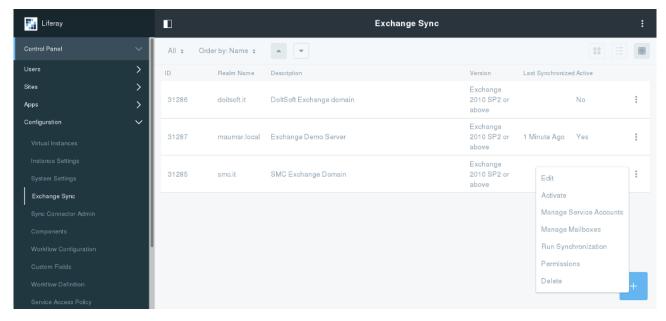


Figure 1 - Exchange sync domain list



□ <	smc.it	
Realm Name * smc.it		
Description SMC Exchange Domain		
Version Exchange 2007 SP1 Exchange 2010 Exchange 2010 SP1 Exchange 2010 SP2 or above Active No		<u></u>
Settings		~
Service URL https://exchange.smc.lan/ews/Exchange.asmx		
Folder Synchronization Interval 30		Seconds
Save Cancel		

Figure 2 - Exchange sync domain edit



# Mailbox Configuration

In order to enable the synchronization between Microsoft Exchange and Liferay; email address is the attribute that will connect Exchange and Liferay Users.

Its means a user can be connect only to one user on the other platform.

tiferay	□ <	Mailboxes in maumar.local		:
Control Panel 🗸 🗸			Search	Q
Users >	All +			
Apps >	Email Address	Owner		
Configuration V	devops@maumar.local	₩ DevOps		:
Virtual Instances Instance Settings	maucel@maumar.local	<b>⊥</b> Mauro Celani		:
Exchange Sync System Settings	maumar@maumar.local	1 Mauro Mariuzzo		:
Sync Connector Admin Components	stepar@maumar.local	1 Stefano Paro		:
Workflow Configuration				
Custom Fields			Add Site Mailbox	
Workflow Definition			Add User Mailbox	+
Service Access Policy				

Figure 3 - Exchange sync mailbox list

### Account configuration

Synchronization process can been established through: Microsoft Exchange Impersonalization or one to one User Configuration.

- Impersonalization options can be configured in "Managed Service Account" on "Active Directory User & Computer"
- Liferay administrator can proceed with "one to one" user configuration. In this way the end user will use "My Exchange Sync" (this feature will be explained later)

#### Folder Management

Microsoft Exchange create specific folder inside user's mailbox; these specific mailbox are used by some server services.

Calendar folder contains all events created by the specific user and/or the specific users has been attended.

In Liferay Portal, a user can use different calendars with specific visibility roles.

In order to enable synchronization task through Microsoft Exchange and Liferay you need:

- Specify Liferay Calendar you need synchronize with MS Exchange
- Choose synchronization policy



- One Way: MS Exchange events are propagated to Liferay platform
- Two Ways: the synchronization task works in both directions (from and to Liferay)
- Force next synchronization

🏭 Liferay	C Manage Folders in maumar@maumar.local				
Control Panel 🗸 🗸	Calendar			~	1
Users >					
Sites >	Liferay Calendar	Exchange Calendar	Synchronization Type	Reset Last Sync date	
Apps > Configuration >	Mauro Mariuzzo	Calendario \$	Bidirectional	\$ No \$	
Virtual Instances Instance Settings	Private	Select a value \$	From Exchange to Liferay	e No e	
Exchange Sync					
System Settings	Save Cancel				
Sync Connector Admin	Gave				
Components					
Workflow Configuration					
Custom Fields					
Workflow Definition					
Service Access Policy					

Figure 4 - Exchange sync mailbox folders

## Mailbox Management

The link between Microsoft Exchange and Liferay calendar can be configured by:

• User panel

Tiferay			Edit User Mauro Mariuzzo 💿			
Centrel Panel 🗸	User Information Identification	Miscellaneous				
Users 🗸						
Users and Organizations	Select the delivery options for alerts an	d announcements.				
User Groups	Туре	Email	SMS	Website		
Roles	General					
Password Policies			0			
Manitoring	News					
Sites >	Test					
Apps >						
Configuration >	Exchange Sync					
TT Test >	Exchange Sync					~
⊘ Liferay Ø >	In case of edit the modified element wil	be saved immediatelly				
	Email Address		Owner			
	maumar@maumar.local		💄 Mauro Mariuzzo		Manage Folders	:
					Run Synchronization	
	Display Settings					>
	Commants					>
	Gustom Fields					>
	Save Cancel					

Figure 5 - User panel



• Site panel

🏭 Liferay		Site Settings				
Control Panel	General Social Languages Advanced					
Test >						
🕝 DevOps 🛛 🥥 🗸	Select the default roles and teams for new members. Site Roles ()					
Navigstion 🗸	None					
Pages 🚦	Select					
	Teams 🕐					
Content >	None					
Cantiguration	Select					
Site Settings						
Application Display Template	Analytics			>		
Social Activity	Maps >					
Workflaw Centiguration	Recycle Bin			>		
Mobile Device Families	Content Sharing			>		
Publishing >	Exchange Sync			$\sim$		
	In case of edit the modified element will be saved immediately					
	Email Address	Owner				
	devops@sma.it	🗮 DevOps	Manage Folders			
			Run Synchronization			
	Save Cancel					

Figure 6 - Site panel



## Mailbox creation (automatic process)

In order to enable bulk mailbox creation process, inside mailbox management panel you can enable the creation process. This background task creates:

- Mailbox registration for all users with main email address

- If synchronization process has been configured with a Service Account, the process will configure the link between "MS Exchange Folder Calendar" and "Liferay default calendar".

Liferay		Mailboxes in maumar.local	Create Mailbox Automatically
Control Panel	~		Email Address
Users Sites	> All +		
Apps	> Email Address	Owner	
Configuration	→ maumar@maumar.local	👤 Mauro Mariuzzo	:
Virtual Instances			
Instance Settings			
System Settings			
Exchange Sync			
Sync Connector Admin			
Components			
Workflow Configuration			
Custom Fields			
Workflow Definition			+
Service Access Policy			

Figure 7 - Exchange automtatic creation process



# Password Manual Configuration

Synchronization task be configured using *impersonalization* proprieties. However in case the organization does not permits this kind of configuration, every user can configure his private password. This manual process can be performed only if the administrator has enabled mailbox to the specific user. The passwords are set by "My Account" panel.

<b>0</b> ×	Ŷ	our credential for maumar@maumar.local - Control Panel - Liferay - Google Chrome	~ ^	
Your credential for m ×				٢
← → C ③ localhost:13110/group/contr	ol_panel/manage?p_p_id=it	_smc_exchange_sync_user_web_portlet_MyExchangeSyncPortlet&p_p_lifecycle=0&p_p_state=maximized&p_p_mode=view&_it	┦☆	1
tiferay	□ <	Your credential for maumar@maumar.local		
MM Mauro 🗸 🗸	Account Name 🜟			
My Account 🗸 🗸	maumar@maumar.loca			
Account Settings	Account Password 🜟			
My Exchange Sync				
My Workflow Tasks	Show Password			
Notifications	Domain			
My Submissions	Domain			
My Organizations				•
Sign Out	Save	Cancel		
🧭 Liferay 🖉 >	Suit	outor		

Figure 8 - My Exchange credential exchange

In every mailbox the user can set his own password for Microsoft Exchange

As soon as the user has set his password he can set the synchronization process.

### Management: Portlet properties

Some parameters are defined inside portlet.properties files; specific files is stored in:

```
"${liferay.home}"
```

"\${liferay.configDir}"

#### synchronize.job.interval=10

Set the interval in seconds on how often starts the synchonization job. Because we could have multiple Exchange Domain for every Liferay Instance the job process sequentially. Every Domain do the synchronization if the previous sync happens more than "syncInterval" seconds ago. We suggest to do not go lower than 5 seconds



# Set the default interval in seconds a Domain will perform a
synchronization
# after a previous one
# Consider to use a value multiple of "synchronize.job.interval"
#
synchronize.domain.default.interval=60

synchronize.user.domain.cron.expression=0 30 1 \* \* ?

autodiscover.batch.size=50
autodiscover.retry.attempts=5
autodiscover.retry.delay=1000

exchange.retry.attempts=5
exchange.retry.delay=1000

items.synchronization.page.size=10

calendar.color.default=0x0000FF
calendar.notification.default.type=email

populated.folders.export.enabled=true

appointment.import.reminders=true