

WebDAV, CalDAV, CardDAV?

Synchronisation and data exchange via the web



EGroupware

SMART ONLINE OFFICE

- [EGroupware GmbH](#) (Kaiserslautern, DC in Frankfurt/Karlsruhe) offers EGroupware as [SaaS solution](#) and [On Premises](#)
- Email server (with deep integration) included
- [Collabora Online](#), [Rocket.Chat](#) as **SaaS**
- Reseller for: [Collabora Online-Lizenzen](#), [bbbserver.de](#), [Outlook CalDAV Synchronizer](#), [Placetel](#)
- Partner of: [Placetel](#), [KiwiTalk.](#), [Univention](#)
- Version with business function enhancements and support (EPL)
- [Support](#) (migration and update support, ...) also for community users!
- Organisational consulting
- Special programming, masks, functions, ...



EGroupware
SMART ONLINE OFFICE

Smart Online Office

- **Smart** : Intelligent linking of information
- **Online** : Web application usable on all platforms
- **Office** : **(Almost) complete office in the web browser**

Alternative to MS365, Google Workspace, ...

Topics



- * Overview of EGroupware
- * What is *DAV?
- * What do I use *DAV for?
- * Do I already use *DAV?

- * Example applications (with EGroupware)
 - * Address book => Fritz!Fon
 - * Calendar/address book synchronisation Thunderbird
 - * Accessing file servers with Linux Mint
 - * Mounting WebDAV in EGroupware file manager

- * Further information

Why this lecture?

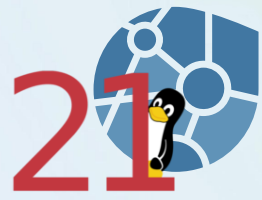


From help.egroupware.org

Top Referred Topics (Last 30 Days)	Clicks
Zugriff auf EGroupware per WebDAV (CalDAV/CardDAV)	76
After update to 3.11.0, embedded images appear with ...	58
:uk: Guacamole - Advanced Administration and Tips 1	45
Verbindung zum Windows Server kann nicht aufgebaut...	40
Nas QNAP and Docker installation	39
Fritzbox CardDAV	37
Access to EGroupware via WebDAV (CalDAV/CardDAV)	37
Ubuntu 18.04.5 LTS: An error occurred during the sign...	36
Default Username and Password - egroupware-docker ...	32
Rocket.Chat Proxy Error	31

Overview of EGroupware

Applications in EGroupware



Email



InfoLog

(tasks, notes,
telephone,
Email, ...)



Calendar



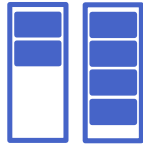
Contacts

CRM views

Applications in EGroupware



**Filemanager /
Filesharing**



Kanban



smallPART



Project Manager



**Tracking
System
(Ticket system)**



Bookmarks



Time rerording
to Projects,
tickets, tasks,
contacts



Ressources

**Knowledge
Management**

Applications in EGroupware



Video conference
(Jitsi)



Remote Desktop
(Guacamole)



CTI/Telephony



Video conference
(BBB)



Chat
(Rocket.Chat)



Discourse ?

**Your
Application?**



Office
(Collabora Online)



Wiki.js ?

Operating possibilities?



Community Edition (**CE**) as

- **On-premise**
- Own DC, colocation, ...
- under the desk, on a NAS...

EPL as **SaaS** or **on-premise** (own DC, colocation, ...)

Comparison:

<https://www.egroupware.org/de/egroupware-ce-vs-epl>

Change between locations and versions always possible!
Open for migration! In all directions...

More about EGroupware



Flyer

<https://www.egroupware.org/community#downloads>

Lectures

<https://help.egroupware.org/t/de-ubersicht-vortrage/76255>

Forum

<https://help.egroupware.org/>

Github

<https://github.com/EGroupware/egroupware/wiki>

What is *DAV?

What is *DAV?



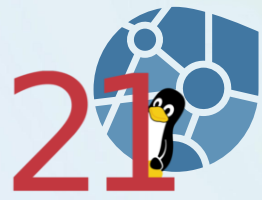
Brief history

WebDAV (Web-based Distributed Authoring and Versioning) as an extension of HTTP was developed in an IETF working group from 1996. It is therefore a network protocol.

First publication as RFC 2518 in 1999.
Last version from 2007

<https://en.wikipedia.org/wiki/WebDAV>

What is *DAV?



RFCs WebDAV:

RFC 2518: HTTP Extensions for Distributed Authoring - WebDAV

RFC 3648: Web Distributed Authoring and Versioning (WebDAV) Ordered Collections Protocol

RFC 3744: Access Rights

RFC 4331: Quotas

RFC ...

<https://de.wikipedia.org/wiki/WebDAV#Weblinks>

What is *DAV?



File exchange via the Internet

Files (ics/vcf) are exchanged via the Internet. Synchronisation is therefore **file-based**.

Directories with contained files can also be transferred.
(vs. web interface)

What is *DAV?



New methods (and header attributes)

WebDAV extends http with methods to exchange files with the application/web server in both directions.

Examples

PROFIND	Retrieves the table of contents
MKCOL	Creates a directory
MOVE	Moves a file
DELETE	Deletes a file

<https://en.wikipedia.org/wiki/WebDAV#Implementation>

What is *DAV?



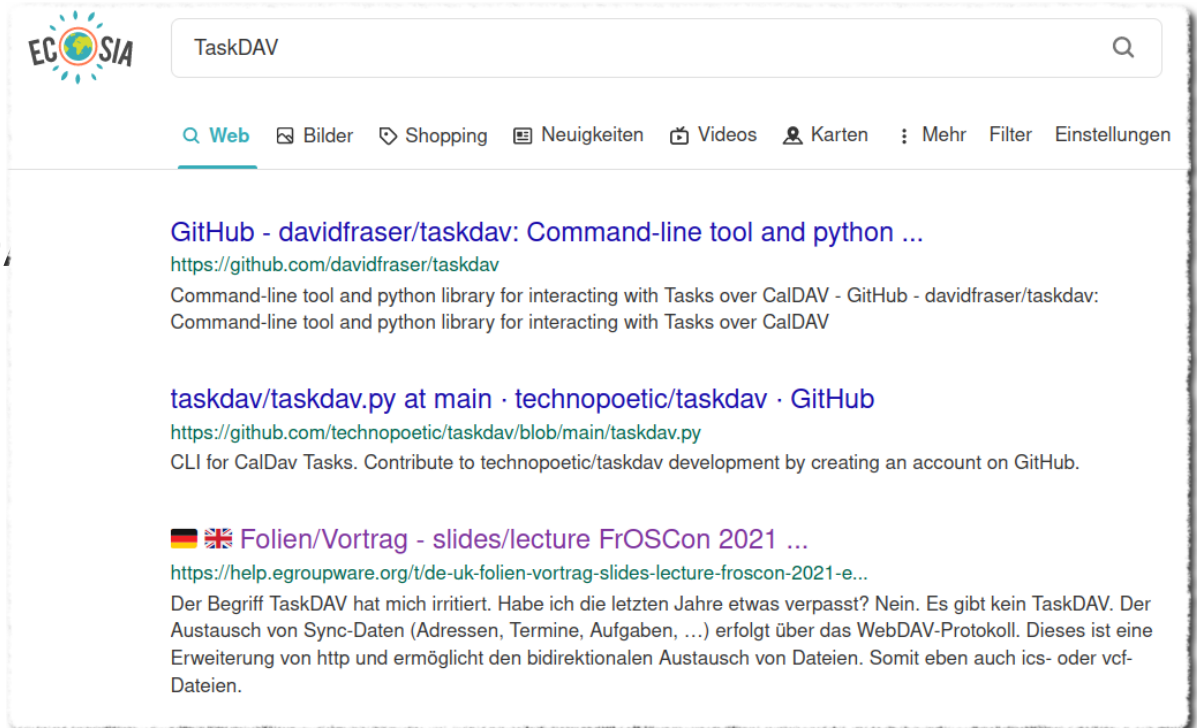
GroupDAV?

Discontinued in 2011 in favour of CalDAV and CardDAV.

TaskDAV?

There is no TaskDAV.

Tasks are exchanged via CalDAV.
Tasks are exchanged.



What is *DAV?



<https://demo.egroupware.net/egw>



What is *DAV?



<https://demo.egroupware.net/egw/webdav.php>

WebDAV [/home/](#)

Collection listing: home

#	Name	Displayname	Last modified	ETag	Content type	Resource type
1	anna.fleming/	anna.fleming	2014-02-03 15:32:35	"32:1391437955:0"	httpd/unix-directory	<D:collection />
2	Facility Management/	Facility Management	2014-04-02 16:57:09	"151:1396450629:0"	httpd/unix-directory	<D:collection />
3	Machinery/	Machinery	2014-04-02 16:58:52	"153:1396450732:0"	httpd/unix-directory	<D:collection />
4	Management/	Management	2014-02-03 14:23:12	"23:1391433792:0"	httpd/unix-directory	<D:collection />
5	Software Development/	Software Development	2014-04-02 16:58:09	"152:1396450689:0"	httpd/unix-directory	<D:collection />
6	Support/	Support	2014-04-02 16:54:59	"150:1396450499:0"	httpd/unix-directory	<D:collection />

Properties

Name space	Name	Value
DAV	displayname	home
DAV	creationdate	1390470560
DAV	getlastmodified	1390470560
DAV	lastaccessed	0
DAV	ishidden	
DAV	resourcetype	<D:collection />
DAV	getcontenttype	httpd/unix-directory
DAV	getetag	"2:1390470560:0"
urn:schemas-microsoft-com:	Win32LastModifiedTime	Thu, 23 Jan 2014 09:49:20 GMT
http://www.southrivertech.com/	srt_modifiedtime	Thu, 23 Jan 2014 09:49:20 GMT

What is *DAV?



<https://demo.egroupware.net/egw/groupdav.php>

(Cal|Card|Group)DAV /

Collection listing: EGroupware (Cal|Card|Group)DAV server

#	Name	Displayname	Last modified	ETag	Content type	Resource type
1	addressbook/	All addressbooks		"none"	httpd/unix-directory	<http://groupdav.org:/vcard-collection /> <urn:ietf:params:xml:ns:carddav:addressbook /> <urn:ietf:params:xml:ns:carddav:directory /> <D:collection />
2	addressbook-accounts/	Address Book Accounts		"none"	httpd/unix-directory	<http://groupdav.org:/vcard-collection /> <urn:ietf:params:xml:ns:carddav:addressbook /> <D:collection /> <http://calendarserver.org/ns:/shared />
3	calendar/	Calendar Anna Fleming		"none"	httpd/unix-directory	<http://groupdav.org:/vevent-collection /> <urn:ietf:params:xml:ns:caldav:calendar /> <D:collection />
4	infolog/	InfoLog Anna Fleming		"none"	httpd/unix-directory	<http://groupdav.org:/vtodo-collection /> <urn:ietf:params:xml:ns:caldav:calendar /> <D:collection />
5	resources/	Resource calendars		"none"	httpd/unix-directory	<D:collection />
6	locations/	Location calendars		"none"	httpd/unix-directory	<D:collection />
7	principals/	Accounts		"none"	httpd/unix-directory	<D:collection />
8	Admins/	Group Admins		"none"	httpd/unix-directory	<D:collection />
9	anna.fleming/	Anna Fleming		"none"	httpd/unix-directory	<D:collection />
10	anonymous/	User Anonymous		"none"	httpd/unix-directory	<D:collection />
11	Business Contacts/	Group Business Contacts		"none"	httpd/unix-directory	<D:collection />
12	Daniel Weiss collection/	Daniel Weiss collection		"none"	httpd/unix-directory	<D:collection />

What is *DAV?



```
# CalDAV & CardDAV autoconfig
location ~ ^/.well-known/(caldav|carddav)$ {
    return 301 $redirectscheme://$host/egroupware/groupdav.php/;
}
location ~ ^(/principals/users/.*)$ {
    return 301 $redirectscheme://$host/egroupware/groupdav.php$1;
}
```


What is *DAV?

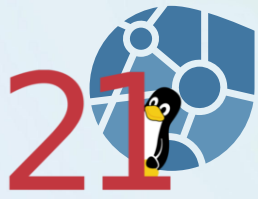


Conflict detection/synchronisation: Date/ETag

8	14.vcf	Dennis Jenkins	2016-05-18 11:48:16	"14:11"	text/vcard
9	15.vcf	info	2016-06-07 08:13:54	"15:12"	text/vcard
10	17.vcf	Ms. Susanne Baier	2014-02-03 17:32:11	"17:3"	text/vcard
11	18.vcf	Mr. Robert Ackerman	2016-05-18 11:41:09	"18:3"	text/vcard
12	19.vcf	Mrs. Marina Herrmann	2014-02-03 16:52:21	"19:2"	text/vcard
13	20.vcf	Mr. Eric Koch	2014-02-03 17:39:55	"20:2"	text/vcard

8	14.vcf	Dennis Jenkins	2016-05-18 11:48:16	"14:11"	text/vcard
9	15.vcf	info	2016-06-07 08:13:54	"15:12"	text/vcard
10	17.vcf	Ms. Susanne Baier	2021-11-12 10:50:27	"17:4"	text/vcard
11	18.vcf	Mr. Robert Ackerman	2016-05-18 11:41:09	"18:3"	text/vcard
12	19.vcf	Mrs. Marina Herrmann	2014-02-03 16:52:21	"19:2"	text/vcard
13	20.vcf	Mr. Eric Koch	2014-02-03 17:39:55	"20:2"	text/vcard

Security



The two pages involved establish a connection:

Transport encrypted via SSL (https).
Authentication user

Security on the clients (stored PW, third-party access) is a critical point.
Access data is usually stored.

vs. access via **web UI**:
SSL and Auth, but **no storage of data/access data**.

What is *DAV?



Calendar/Dates

Filename: *.ics

Mime: text/calendar

Wikipedia: [iCal](#)

File exchange via: [CalDAV](#)

```
event.ics x
BEGIN:VCALENDAR
VERSION:2.0
PRODID:-//EGroupware//NONSGML EGroupware Calendar 21.1//DE
METHOD:PUBLISH
BEGIN:VTIMEZONE
TZID:Europe/Berlin
BEGIN:DAYLIGHT
TZOFFSETFROM:+0100
TZOFFSETTO:+0200
TZNAME:CEST
DTSTART:19700329T020000
RRULE:FREQ=YEARLY;BYMONTH=3;BYDAY=-1SU
END:DAYLIGHT
BEGIN:STANDARD
TZOFFSETFROM:+0200
TZOFFSETTO:+0100
TZNAME:CET
DTSTART:19701025T030000
RRULE:FREQ=YEARLY;BYMONTH=10;BYDAY=-1SU
END:STANDARD
END:VTIMEZONE
BEGIN:VEVENT
SUMMARY:Facility management / meeting
DESCRIPTION>Lorem ipsum dolor sit amet\, consetetur sadipscing elitr\, sed
diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam
erat\, sed diam voluptua. \n\nAt vero eos et accusam et justo duo
```


What is *DAV?



Calendar/Dates

Filename: *.ics

Mime: text/calendar

Wikipedia: [iCal](#)

File exchange via: [CalDAV](#)

```
et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea
takimata sanctus est Lorem ipsum dolor sit amet.
DTSTART;TZID=Europe/Berlin:20160520T090000
DTEND;TZID=Europe/Berlin:20160520T100000
ATTENDEE;CN=Anna
  Fleming;ROLE=REQ-PARTICIPANT;PARTSTAT=NEEDS-ACTION;CUTYPE=INDIVIDUAL;RSVP
=TRUE;X-EGROUPWARE-UID=21:mailto:anna.fleming@demo.egroupware.net
ATTENDEE;CN=Zantir Engineering
  Group;ROLE=REQ-PARTICIPANT;PARTSTAT=NEEDS-ACTION;CUTYPE=GROUP;RSVP=TRUE;X
-EGROUPWARE-UID=-15:urn:uuid:accounts--15-605726f8ee1551d4139ce0f0806c1ggg
g
ATTENDEE;CN=Nicole
  Oster;ROLE=REQ-PARTICIPANT;PARTSTAT=ACCEPTED;CUTYPE=INDIVIDUAL;RSVP=FALSE
;X-EGROUPWARE-UID=16:mailto:nicole.oster@demo.egroupware.net
ATTENDEE;CN=Daniel
  Weissmuller;ROLE=CHAIR;PARTSTAT=ACCEPTED;CUTYPE=INDIVIDUAL;X-EGROUPWARE-U
ID=17:mailto:daniel.weissmuller@demo.egroupware.net
ORGANIZER;CN=Daniel
  Weissmuller;X-EGROUPWARE-UID=17:mailto:daniel.weissmuller@demo.egroupware
.net
RRULE:FREQ=MONTHLY;BYDAY=3FR
PRIORITY:5
CATEGORIES:Project
UID:calendar-53-604726f8ee1551d4139ce0f0806c1a81
STATUS:CONFIRMED
CREATED:20160518T112402Z
LAST-MODIFIED:20160518T114221Z
DTSTAMP:20211107T122131Z
END:VEVENT
END:VCALENDAR
```

What is *DAV?



Address Book/Contacts

Filename: *.vcf

Mime: text/vcard

Wikipedia: [vCard](#)

File exchange via: [CardDAV](#)

```
*Zantir Engineering Fleming, Anna.vcf x
BEGIN:VCARD
VERSION:3.0
PRODID:-//EGroupware//NONSGML EGroupware Addressbook 21.1.001//DE
ADR;TYPE=WORK;;;Seestraße 28;Berlin;;;10115;DEUTSCHLAND
CLASS:PUBLIC
EMAIL;TYPE=WORK:anna.fleming@demo.egroupware.net
N:Fleming;Anna;;;
FN:Anna Fleming
ORG:Zantir Engineering;Human Ressources
TEL;TYPE=VOICE,WORK:+49 0178931567
TITLE:HR Manager
ROLE:MBA
FBURL:https://demo.egroupware.net/egw/calendar/freebusy.php?user=anna.fleming
PHOTO;TYPE=JPEG;ENCODING=BASE64:/9j/4QAYRXhpZgAASUkqAAgAAAAAAAAAAAAAAP/sABFEdWNreQABAAQAAAAA8AAD/4QMraHR0cDovL25zLmFkb2JlLmNvbS94YXVMS4wLWwA8P3hwYWNrZ
...
KQGSk665Z0Hdiy31JrvGTJlvtcRsXSHBvKXthPFr9XuXRfCmY6ZCFNflqQl1RUsJR5EnjU5Z4Q
qVzFvDqC25Ury6H//2Q==
UID:addressbook-13-604726f8ee1551d4139ce0f0806c1a81
REV:2017-03-10T14:47:41Z
END:VCARD
```

CalDAV?



CalDAV

Problems, especially in the team

- Time zones
- Series appointments
- Exceptions (participants, place, time, ...)
- Conflicts (... , how long to check, ...)
- Finding an appointment
- Non-Gregorian calendars

- Invitations to external

CalDAV?

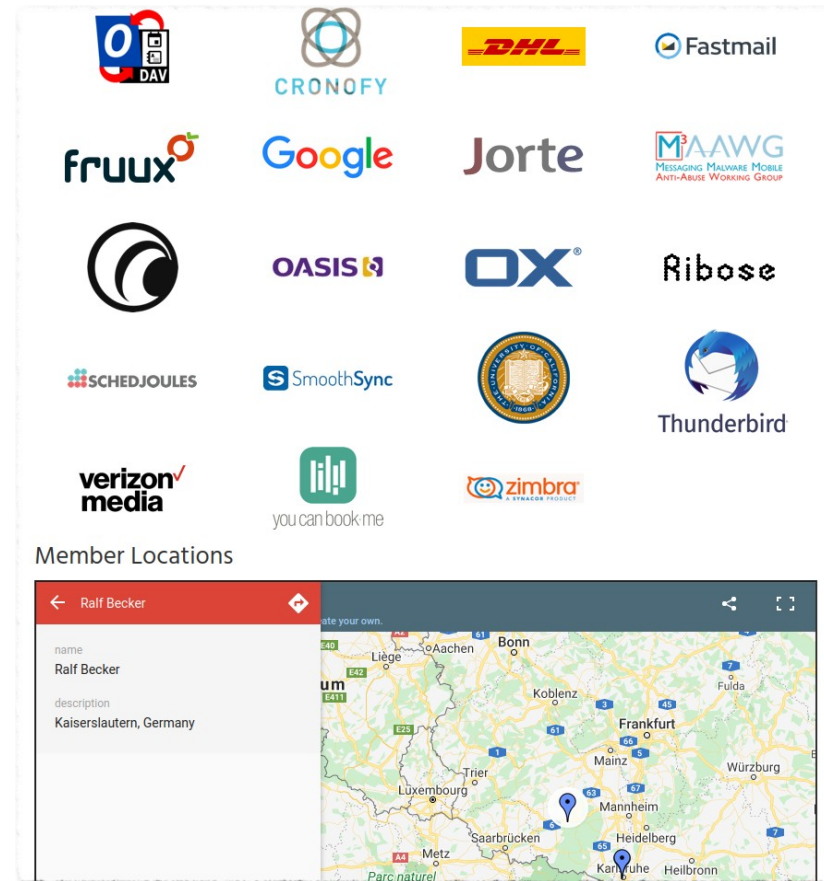


CalConnect

Non-profit organisation that takes care of data exchange, especially of calendar data.

Improvement of existing standards
Development of new standards
Carrying out interoperability tests
Promoting collaboration

Why?
Calendar is complex!



CalDAV?



CalDAV for tasks

BEGIN:VTODO

X-INFOLOG-STATUS:ongoing

X-INFOLOG-TYPE:note

```
todo.ics x
BEGIN:VCALENDAR
VERSION:2.0
PRODID:--//EGroupware//NONSGML EGroupware InfoLog 21.1//DE
BEGIN:VTODO
SUMMARY:Insurance details / Lift - building B3
DESCRIPTION:Lorem ipsum dolor sit amet\, consetetur sadipscing elitr\, sed
diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam
erat\, sed diam voluptua. At vero eos et accusam et justo duo dolores et
ea rebum. Stet clita kasd gubergren\, no sea takimata sanctus est Lorem
ipsum dolor sit amet. Lorem ipsum dolor sit amet\, consetetur sadipscing
elitr\, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna
aliquyam erat\, sed diam voluptua. At vero eos et accusam et justo duo
dolores et ea rebum. Stet clita kasd gubergren\, no sea takimata sanctus
est Lorem ipsum dolor sit amet.\n\nLorem ipsum dolor sit amet\,
consetetur sadipscing elitr\, sed diam nonumy eirmod tempor invidunt ut
labore et dolore magna aliquyam erat\, sed diam voluptua. At vero eos et
accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren\, no
sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor
sit amet\, consetetur sadipscing elitr\, sed diam nonumy eirmod tempor
invidunt ut labore et dolore magna aliquyam erat\, sed diam voluptua. At
vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd
gubergren\, no sea takimata sanctus est Lorem ipsum dolor sit amet.
UID:infolog-229-604726f8ee1551d4139ce0f0806c1a81
X-INFOLOG-TYPE:note
DTSTART:20160518T113000Z
DTSTAMP:20211107T132724Z
CREATED:20160518T113122Z
LAST-MODIFIED:20160606T150857Z
CLASS:PUBLIC
STATUS:IN-PROCESS
X-INFOLOG-STATUS:ongoing
PERCENT-COMPLETE:70
PRIORITY:5
END:VTODO
END:VCALENDAR
```

WebDAV?



WebDAV for accessing file systems

WebDAV was created to exchange files.
So we use it for exactly that (as a file server)!

A WebDAV server can be accessed with a wide variety of clients:

- File manager
- Synchronisation software
- Command line
- Smartphone
- ...

WebDAV?



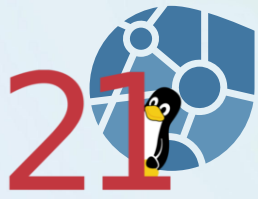
WebDAV for access to file systems

Can be permanently mounted in file systems.

Documentation for Linux and Windows:

<https://help.egroupware.org/t/access-to-egroupware-via-webdav-caldav-carddav/74198#linux>

WebDAV?



DAVx⁵

Synchronises calendar, contacts and tasks on Android devices.
devices.

New: Also enables direct access to files of the
WebDAV host



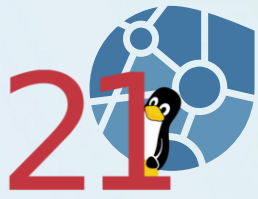
Alternatively also in the F-Droid store:

<https://f-droid.org/de/packages/at.bitfire.davdroid/>

Managed DAVx⁵

<https://www.davx5.com/organizations/managed-davx5>

WebDAV?



Outlook CalDav Synchronizer

Synchronises calendar, contacts and tasks with Outlook.

Combines with EGroupware:

<https://www.egroupware.org/en/caldav-synchronizer>

Enterprise Support:

From EGroupware GmbH (special version+Support) or

<https://caldavsynchronizer.org/enterprise/contact/>



EGroupware online demo



EGroupware online demo:

<https://demo.egroupware.net/egw>

User: anna.fleming Password: demo

Access paths:

File	WebDAV	https://demo.egroupware.net/egw/webdav.php
Calendar	CalDAV	https://demo.egroupware.net/egw/groupdav.php/anna.fleming/calendar
Tasks	CalDAV	https://demo.egroupware.net/egw/groupdav.php/anna.fleming/infolog
Contacts	CardDAV	https://demo.egroupware.net/egw/groupdav.php/anna.fleming/addressbook

<https://help.egroupware.org/t/access-to-egroupware-via-webdav-caldav-carddav/74198#zugriffsadressen>

Data protection!



- Addresses (possibly tasks/appointments) are **personal data** of others.
- Often more than just address data
- Especially on mobile devices, address data is pulled from app providers and possibly synced back to a device/OS provider (...)

Solution

- Everything except the necessary contact data should not be stored in the standard fields in the groupware.
- Instead, create user-defined fields that are not synced and access them via the web UI.

Lowest common denominator



- Groupware solutions usually offer more fields for information
- Anything that goes beyond the standard fields in the apps cannot be synced
- Links between information cannot be displayed (except contact in appointment...)
- Linked attachments cannot be displayed/synced
- Free text fields are text fields. No formatting possible to maintain compatibility

What do I use *DAV for?

What do I use *DAV for?



Summary

- Synchronisation of contact data
- Appointment synchronisation
- Synchronisation of tasks
- Access (synchronisation) to files

What do I use *DAV for?



Or also:

Connecting contact forms via a new REST API for **contacts**

<https://github.com/EGroupware/egroupware/tree/master/doc/REST-CalDAV-CardDAV>

Others (InfoLog, calendar) will follow.

Do I already use *DAV?

Do I already use *DAV?



?

Example applications (with EGroupware)

Examples (with EGroupware)



EGroupware as *DAV server

- EGroupware supports CalDAV (+ tasks), CardDAV and WebDAV (file access)
- Offers a web interface to (re-)maintain data
- Sync/access alternatively via ActiveSync
- Alternative access via Mobile Web View
- (no or only partial data on mobile device)

- Administration in EGroupware (user/admin)

Examples (with EGroupware)



EGroupware as *DAV server

- Troubleshooting support
- Various setting options
- (calendar sync period, which address books, ...)
- Test access

Examples (with EGroupware)



Fritz!Box

- Fritz!OS has been able to sync remote address books for some time.
- From version 7.20 also free CardDAV sources
- Synchronises 1x night EGroupware => Fritz!Box (or manually in Fritz-UI)
- no live access to source
- New contacts created on handset => personal address book user

- Prefixes salutation => vanity search

<https://help.egroupware.org/t/egw-addresses-fritz-box-address-book/75300>

Examples (with EGroupware)



In EGroupware:

- Create a user for each Fritz!Box address book (per telephone) * **
- Give the user the necessary rights to the user/group address books (reading).
- In the settings, select "Synchronise all selected into one"
- Select the address books to be synchronised

* Alternatively: Create one EGw user per address book on the Fritz!Box. This allows you to select individual address books on the telephone handset.

** With your own user with a strong password, you do not have to entrust your own (admin?) access data to the Internet router.

Examples (with EGroupware)



In Fritz!Box:

- Create address book (per telephone) with access data of the EGroupware user.
- Assign address book to a telephone
- Synchronise
- Use...

Examples (with EGroupware)



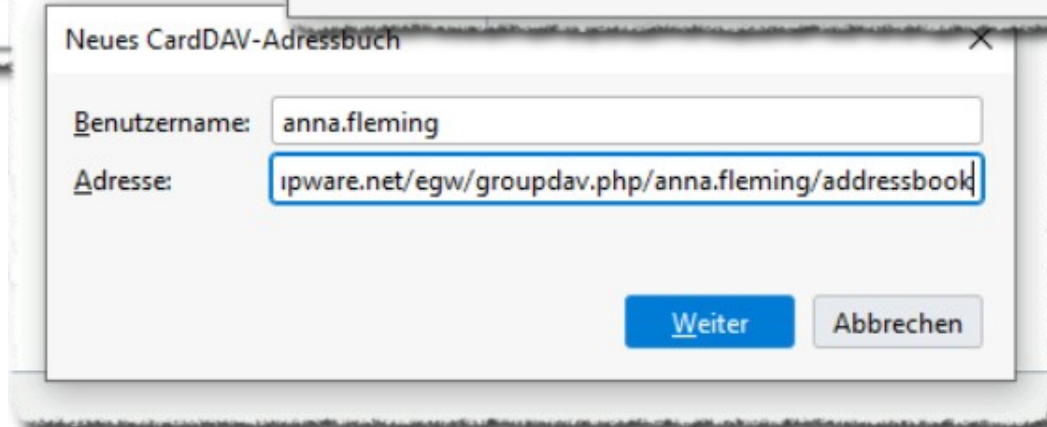
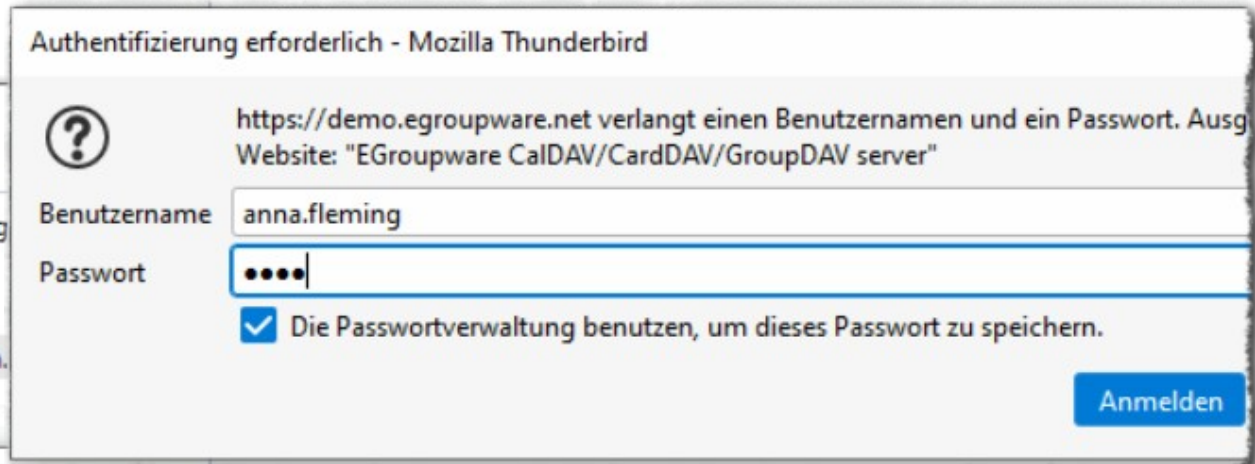
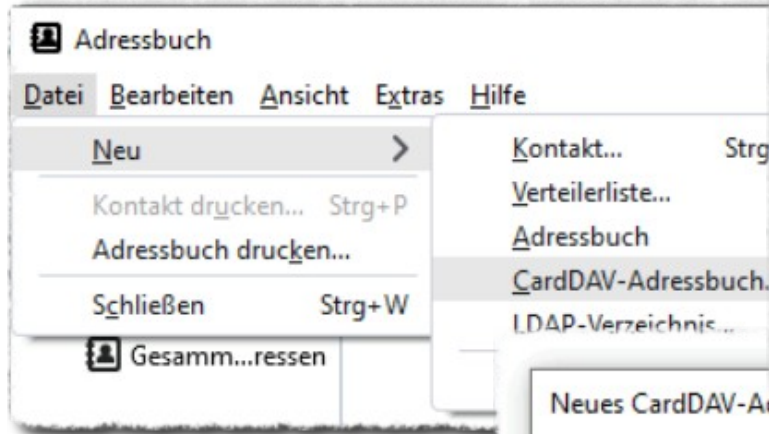
Thunderbird

- Supports CalDAV in the calendar (formerly Lightning)
- CardDAV via add-on (SOGGo-Connector up to 68)
- From version 91 CardDAV support directly

Examples (with EGroupware)



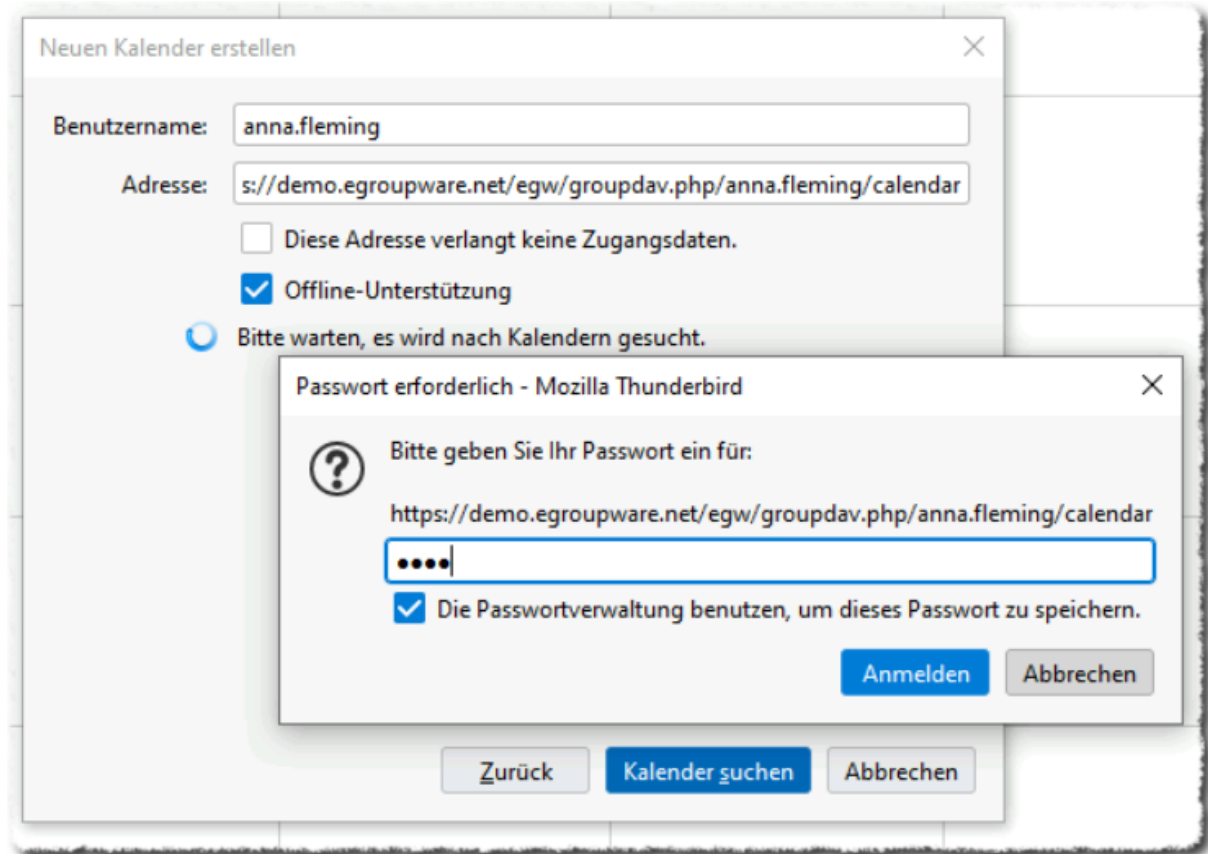
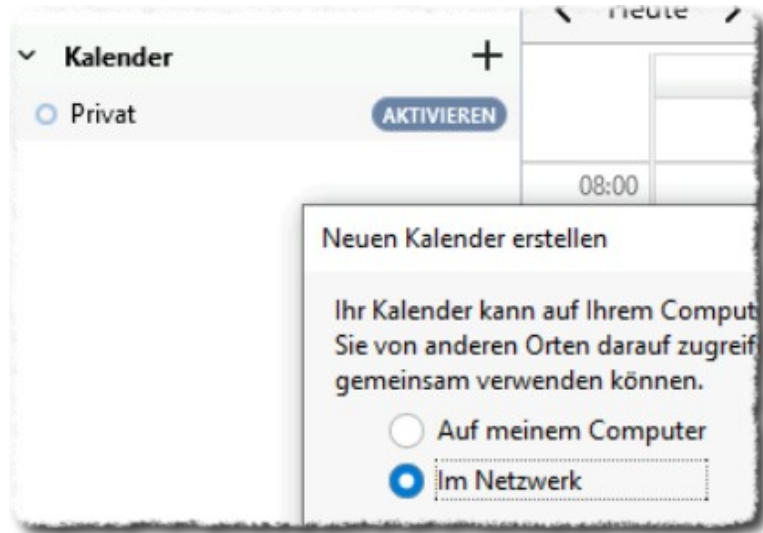
Thunderbird



Examples (with EGroupware)



Thunderbird

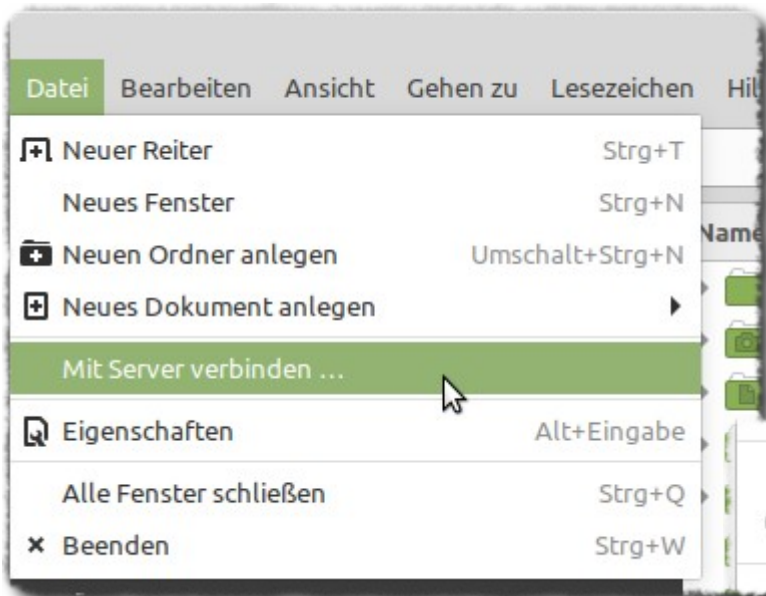


Examples (with EGroupware)

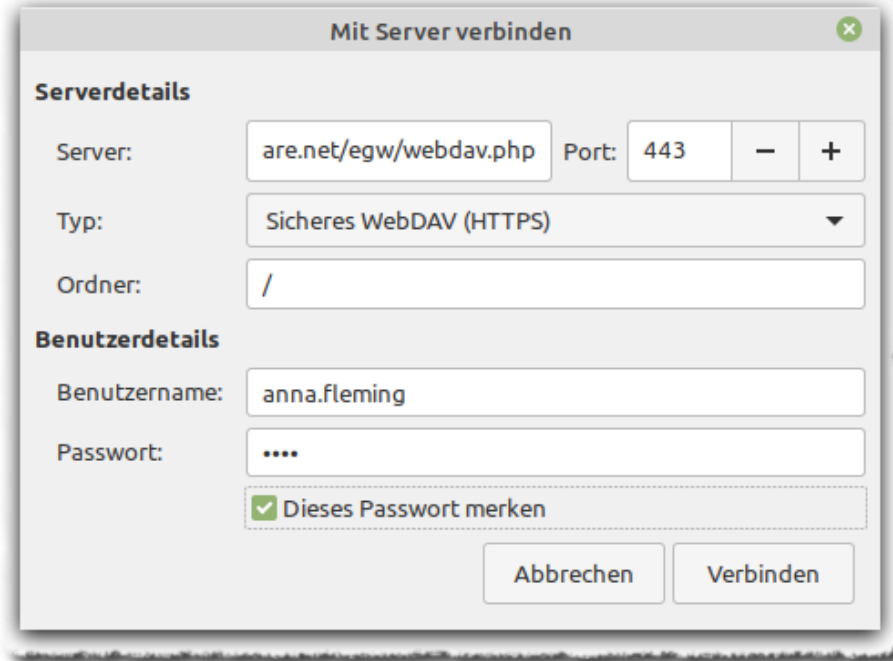


Linux Mint - File access to EGroupware

- Nemo
- demo.egroupware.net/egw/webdav.php



In the Nemo file manager: Enter address and access data



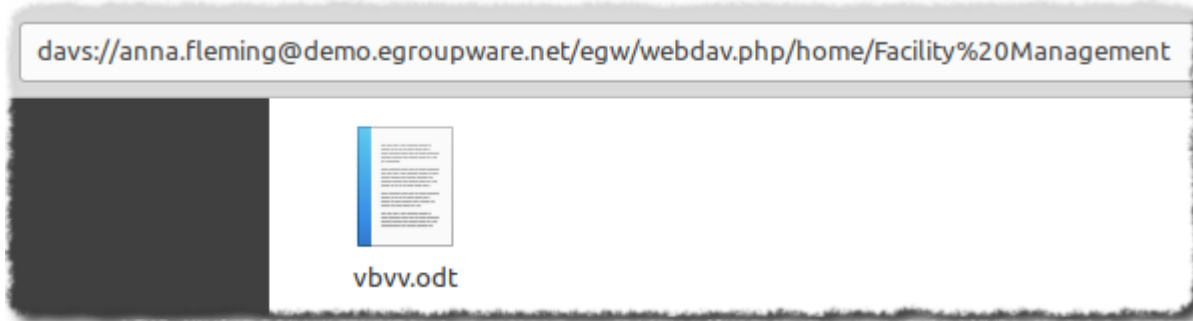
anna.fleming@demo.egroupware.net:443/EGroupware WebDAV server
http://anna.fleming@demo.egroupware.net/EGroupware WebDAV server

Netzwerk-Passwort

Examples (with EGroupware)



Linux Mint - File access to EGroupware



In the Nemo file manager

WebDAV in webbrowser



Examples (with EGroupware)



Linux Mint - File access to EGroupware

In the EGroupware file manager

In Collabora Online

Examples (with EGroupware)



Linux Mint - File access to EGroupware

- In the file manager => edit with LibreOffice
- EGroupware file manager
 - edit with Collabora Online
 - Download/Upload

Examples (with EGroupware)



Mount WebDAV in EGroupware file manager

- Mounting local host directories and network shares in the EGroupware file manager
- Via local mount points on the host everything is possible
- Directly in EGroupware SMB and WebDAV
- Access permissions must fit
- Common user base is very helpful
- EGroupware as sole file server
- Personal, department/team directories in EGroupware for remote access

Examples (with EGroupware)



Mounting WebDAV in EGroupware File Manager

- EGroupware provides a Virtual File System (VFS). Data is located on disk in folders, files have numbers.
- Metadata is stored in the EGroupware database.
- Additional data (description, user-defined fields, ...) are in the database.
- Mounting local host directories and network shares in the EGroupware file manager
- Via local mountpoints on the host everything is possible
- Directly in EGroupware SMB and WebDAV
- Access permissions must fit

Examples (with EGroupware)



Mounting WebDAV in EGroupware File Manager

- Common user base is very helpful
 - EGroupware as the only file server
 - Personal, department/team directories in EGroupware for remote access
 - Mounts can be executed (scripted) on the command line
-
- Forum article:
<https://help.egroupware.org/t/mounting-directories-shares-in-the-egroupware-file-manager/75722>

Examples (with EGroupware)



Mount WebDAV in EGroupware

ADMIN

- Admin
- User accounts
- User groups
- Applications
 - Address Book
 - Bookmarks
 - Calendar
 - Collabora Online
 - E-Mail
 - EPL-Features
 - eSync Provisioning
 - File Manager
 - Custom fields
 - Check virtual filesystem
 - VFS mounts and versioning**
 - Guacamole
 - Import | Export
 - InfoLog
 - Knowledge Base
 - News
 - Notifications
 - OpenID / OAuth2 Server
 - Preferences
 - Project Manager
 - Registration
 - Resources
 - Rocket.Chat
 - smallPART
 - Status
 - Time Sheet
 - Tracking System
 - Wiki

sqlFS Statistics

All files	18525	Files 9.7 GB
Older versions or deleted files	692	Files 1.8 GB
Percentage	3.7%	18.7%

Mountpoints

Path	Backend URL
/	sqlfs://\$host/
/apps	stylite.links://default/apps
/backup	filesystem://default/var/lib/egroupware/default/backup?group=Admins&mode=070
/templates	stylite.merge://default/templates?merge=stylite/printtemplates&lang=1
/etemplates	stylite.merge://default/etemplates?merge=, &lang=0&level=1&extension=xet&url=egw
/home/unver	stylite.versioning://default/home/unver
/home/U [redacted]	smb:// [redacted] :****@192.168.178.21/Foto
/home/U [redacted]	smb:// [redacted] :****@192.168.178.21/Video/[redacted]
/home/unve [redacted]	stylite.versioning://default/home/[redacted]
/home/intern/9 Fi [redacted]	stylite.versioning://default/home/[redacted]
/home/intern/9 Fi [redacted]	stylite.versioning://default/home/[redacted]
/home/unve [redacted]	vfs://unver@default/home/unver [redacted]

Protocols

- WebDAVs: mount EGroupware or *Cloud shares
- SMB: mount Samba or Windows fileservers shares
- Versioning: Versioning requires EGroupware EPL
- Filesystem: mount directory (inside /var/lib/egroupware!) from host filesystem

WebDAVs :// User : Password @ host Path and query-parameters, SMB: share and optional path (with /)

Who should be allowed to finally delete deleted files or old versions of a file: Administrators

Delete all older versions and deleted files older than 100 days under directory / **Finally delete**

Logout

Info

Try EGroupware



- [Live-Demo](#)
- [30-day test system in the EGroupware DC](#) (including Rocket.Chat, Collabora Online, smallPART, Guacamole and email)
More time is available on request, possible transfer of data to productive system if interested.
- [UCS installation](#) (from App-Center or as Appliance)
- Self installation ([GitHub-Wiki](#))
- NAS (QNAP/Synology with Docker or as VM (better))

EGroupware information



- **Forum** (Announcements, extended Release Notes!)
- **Webseite**
- **GitHub** (**Wiki**)
- **Twitter**, **Facebook**, **Linkedin**, **XING**, **Mastodon**
- Flyers on EGroupware and various integrations always up to date at:
<https://www.egroupware.org/en/community#downloads>
- Reviews **Admin Magazin**
- info@egroupware.org: (customised) offers, licensing issues, Collabora online licences, ...

EGroupware information



Join our community forum (and get the latest announcements)

<https://help.egroupware.org/>

Follow us on

Twitter, Facebook, LinkedIn, XING, Mastodon

Give us a star on

GitHub

EGroupware Lectures



- **Everything in German!**
- LibreOffice Online in EGroupware [FrOSCon 2019](#), [CLT 2019](#)
- **Jitsi und Guacamole in EGroupware** [Kielux 2020](#)
- EGroupware als Anwender und Admin [Tux-Tage 2020](#)
- More Videos on [Youtube/EGroupware](#)
- Webinar: [Vorstellung der smallPART Anwendung in EGroupware](#)
- Webinar: [Neue Kanban Anwendung in EGroupware](#)
- Webinars [CTI in EGroupware](#)
[Neuerungen EGroupware 21.1](#)

EGroupware Lectures



- Grazer Linux Tage 2021: [Neues in EGroupware 21.1](#)
- Chemnitzer Linux Tage 2021:
[EGroupware im Homeoffice und in Bildungseinrichtungen](#)
- **Overview of lectures:** <https://help.egroupware.org/t/de-ubersicht-vortrage/76255>
Many slides translated => English
- Flyer: [EGroupware Community Flyer](#) (German and English)

Contact: su@egroupware.org

Forum: help.egroupware.org