

Vizualizator Windows MBox

Manual de utilizare 1.0.3.54

Cuprins

1	Istoricul modificărilor.....	4
2	Ce este nou și ce s-a schimbat în versiunea 1.0.3.54.....	5
2.1	Ce este nou.....	5
2.2	Ce s-a schimbat.....	5
3	LICENȚĂ.....	5
4	Despre acest document.....	5
5	Feedback.....	6
6	Prezentare generală.....	6
7	Probleme cunoscute.....	7
7.1	Rularea MBox Viewer.....	7
7.2	Restricții privind calea folderului.....	7
7.3	Imprimarea în PDF.....	7
7.4	Imprimarea mai multor e-mailuri selectate.....	7
7.5	Data și ora e-mailului.....	8
7.6	Căutare.....	8
8	Instalare.....	8
9	Magazin de date de configurare.....	8
10	Rularea MBox viewer.....	9
10.1	Rezumat listă argumente.....	9
10.2	Setarea opțiunilor din GUI.....	10
10.3	Caz de utilizare de bază.....	11
10.4	Suport pentru foldere multiple.....	13
10.5	Suport pentru ierarhia de foldere.....	14
10.5.1	Selectați folderul rădăcină pentru dialogul de configurare a îmbinării.....	15
10.6	Configurare folder date.....	16
10.7	Configurare dimensiune font text.....	16
10.7.1	Limitări.....	16
10.8	Ascunderea și restaurarea fișierelor Mbox în fereastra arborescentă Arhivă e-mail.....	17
10.9	Ascunderea ferestrei arborescente Arhivă e-mail.....	18
10.10	Setați MBox Viewer ca aplicație implicită pentru a deschide fișiere de arhivă e-mail.....	19
10.11	Poziția ferestrei de mesaje.....	19
10.12	Păstrarea plasării ferestrelor.....	20
10.13	Personalizarea stilului de culoare de fundal.....	20
10.14	Suport pentru etichete Gmail.....	22
10.14.1	Limitări.....	23
10.15	Extinderea listei de câmpuri din antetul mesajului.....	24
10.16	Vizualizarea antetului brut al mesajului.....	24
10.17	Personalizarea antetului de e-mail HTML/PDF.....	24
10.18	Meniu contextual unic pentru e-mail.....	25
10.18.1	Numele fișierelor.....	26
10.19	Meniu contextual pentru mai multe e-mailuri selectate.....	26
10.19.1	Numele fișierelor.....	27
10.20	Meniu contextual pentru grupul de e-mailuri conversaționale.....	27
10.20.1	Numele fișierelor.....	28
10.21	Meniu contextual Arhivă e-mail.....	28
10.21.1	Tipărire în dialogul Fișier CSV.....	29
10.22	Atașamente e-mail.....	29
10.22.1	Meniu contextual atașament.....	30
10.22.2	Configurare atașamente.....	30

10.22.3 Exportul tuturor atașamentelor tuturor e-mailurilor.....	31
10.23 Cache imagine inline.....	31
10.24 Exportul tuturor e-mailurilor în fișiere Eml separate.....	31
10.25 Vizualizator de imagini.....	33
10.26 Navigare e-mail.....	34
10.27 Sortare e-mail.....	34
10.27.1.1 Reguli de sortare a subiectului.....	34
10.28 Redimensionare dinamică a coloanelor.....	35
10.29 Căutare e-mail.....	35
10.29.1 Găsire de bază.....	35
10.29.1.1 Găsiți toate e-mailurile care se potrivesc cu opțiunea.....	36
10.29.1.2 Găsiți e-mailurile care nu se potrivesc cu opțiunea.....	36
10.29.1.3 Gestionarea șirului de căutare special ‘*’	37
10.29.1.4 Filtrare date.....	37
10.29.2 Găsire avansată.....	38
10.29.2.1 Găsiți toate e-mailurile care nu se potrivesc cu opțiunea.....	39
10.29.2.2 Gestionarea șirului de căutare special ‘*’	39
10.29.2.3 Filtrare date.....	39
10.29.3 Fiabilitatea căutării.....	39
10.29.4 Căutare cuvinte.....	40
10.29.5 Bara de progres a căutării.....	40
10.29.6 Performanța căutării.....	40
10.30 Reîmperspățirea ferestrei arborescente arhivă.....	41
10.31 Suport pentru limbă (seturi de caractere).....	41
10.31.1 Fereastra de mesaje.....	41
10.31.1.1 Antetul ferestrei de mesaje.....	42
10.31.2 Fereastra rezumat.....	43
10.32 Auditarea listei de e-mailuri.....	43
10.32.1 Arhivarea listei de e-mailuri.....	44
10.32.2 Îmbinarea mai multor arhive de e-mailuri.....	45
10.32.2.1 Îmbinarea fișierelor folosind opțiuni de linie de comandă.....	45
10.32.2.2 Îmbinarea fișierelor din GUI.....	45
10.33 Prezentare generală a tipăririi e-mailurilor.....	46
10.33.1 Dialog de configurare a tipăririi.....	46
10.33.1.1 Șablon de nume personalizat.....	47
10.33.2 Tipărirea e-mailurilor în fișier foaie de calcul CSV.....	48
10.33.3 Tipărirea e-mailurilor în fișier TEXT.....	48
10.33.4 Tipărirea e-mailurilor în fișier HTML.....	48
10.33.5 Tipărirea e-mailurilor la imprimantă PDF.....	48
10.33.6 Tipărirea e-mailurilor în fișier PDF.....	49
10.33.6.1 Utilizarea aplicației gratuite wkhtmltopdf.....	49
10.33.6.2 Opțiuni de tipărire.....	49
10.33.6.3 Tipărirea direct din browserele Firefox, Chrome și Edge.....	50
10.33.6.4 Impactul asupra dimensiunii fontului la tipărirea mai multor e-mailuri într-un singur PDF	50
10.33.6.5 Performanță.....	51
10.33.7 Imprimarea e-mailurilor în fișiere PDF de către utilizatorii puternici.....	51
10.34 Vizualizarea fișierelor PDF mari.....	52
10.35 Partajarea e-mailurilor cu alte persoane.....	52
10.36 Suport pentru fișiere de e-mail Outlook .msg.....	54

10.36.1 Vizualizarea unui singur fișier .msg.....	54
10.36.2 Îmbinarea mai multor fișiere de e-mail Outlook .msg.....	54
10.37 Exportarea și imprimarea structurii directorului.....	54
11 Suport pentru suporturi media doar în citire.....	55
12 Redirecționarea e-mailurilor direct din MBox Viewer.....	56
12.1 Prezentare generală.....	56
12.2 Conturi de utilizator și parole.....	56
12.2.1 Serviciul de e-mail Yahoo.....	56
12.2.2 Serviciul de e-mail Gmail.....	57
12.2.2.1 Utilizatorul Gmail nu a activat verificarea în 2 pași pentru a se înregistra în Gmail.....	57
12.2.2.2 Utilizatorul Gmail a activat verificarea în 2 pași pentru a se înregistra în Gmail.....	57
12.2.3 Serviciul de e-mail Outlook Live.....	58
12.2.3.1 Crearea unui cont Outlook, nume de utilizator și parolă.....	58
12.2.3.1.1 Nu aveți cont Microsoft (cunoscut ca MSA) și nu aveți cont Outlook Live.....	59
12.2.3.1.2 Aveți deja atât cont Microsoft, cât și cont Outlook Live.....	59
12.2.3.2 Generarea parolei aplicației <i>pentru</i> Outlook.....	59
12.3 Limite de dimensiune și trimitere a e-mailurilor.....	59
12.3.1 Serviciul de e-mail Gmail.....	59
12.3.2 Serviciul de e-mail Yahoo.....	60
12.3.3 Serviciul de e-mail Outlook.....	60
12.4 Configurația serverului SMTP.....	60
12.4.1 Setări implicite ale serverelor SMTP.....	61
12.5 Redirecționarea e-mailurilor.....	61
12.5.1 Redirecționarea unui singur e-mail.....	61
12.5.2 Redirecționarea unei liste de e-mailuri selectate.....	62
12.5.3 Raportarea erorilor.....	62
13 Suport pentru mai multe limbi.....	63
13.1 Configurația limbii.....	63
13.2 Limitări.....	63
14 Identificatori de pagină de cod Windows.....	64
14.1 Gestionarea numelor de pagină de cod necunoscute.....	67

1 Istoricul modificărilor

Revizuire	Data	Comentarii
1.0	28 februarie 2018	Lansare inițială
< 1.0.3.1		Vezi ReadMe.markdown 1.0.3.1 inclus în pachetul de lansare.
>= 1.0.3.1	Septembrie 26, 2019	Vezi secțiunea “Wce este nou și ce s-a schimbat în versiunea 1.0.3.x”.
> 1.0.3.48	3 martie 2025	Versiunea în limba engleză ar Ghidului de utilizare va corespunde numărului versiunii MBox Viewer. Versiunea non-engleză poate să nu fie actualizată dacă nu au existat modificări importante în funcționalitatea. Ce este nou și ce s-a schimbat

2 Ce este nou și ce s-a schimbat în versiunea 1.0.3.54

2.1 Ce este nou

1. S-a adăugat suport pentru fișiere de e-mail Outlook .msg.

2.2 Ce s-a schimbat

1. Actualizate fișierele de traducere a limbii Reactivat butonul global Reîmprospătați toate folderele.
2. Reactivat butonul global Reîmprospătați toate folderele.

3 LICENȚĂ

Codul sursă mbox viewer creat de autorii proiectului mbox viewer este licențiat sub GNU AFFERO GENERAL PUBLIC LICENSE versiunea 3, care permite utilizarea gratuită a codului de către persoane fizice și organizații. O mică porțiune a codului sursă provine de pe site-ul Code Project și este licențiată sub Code Project Open License (CPOL) 1.02, care permite, după cum înțelegem noi, utilizarea gratuită a aceluși cod, cu excepția câtorva cazuri neobișnuite, cum ar fi, de exemplu, utilizarea imorală. Biblioteca gratuită open source MailKit, conectată pentru a se conecta la serverele SMTP, este licențiată sub MIT.

Executabilul mbox viewer nu leagă nicio bibliotecă de utilizare non-gratuită și, prin urmare, poate fi utilizat gratuit, după cum înțelegem noi, de persoane fizice și organizații.

Software-ul mbox viewer este distribuit în speranța că va fi util, dar FĂRĂ NICIO GARANȚIE; fără măcar garanția implicită de VANDABILITATE sau ADECVENȚĂ PENTRU UN ANUMIT SCOP.

Vă rugăm să verificați linkurile de mai jos pentru informații detaliate despre GPL, CPOL și termenii licenței MIT. Vă rugăm să verificați linkurile de mai jos pentru informații detaliate despre GPL, CPOL

<https://mit-license.org/>

<https://github.com/jstedfast/MailKit/blob/master/LICENSE>

<https://www.gnu.org/licenses/agpl-3.0.txt>

<https://www.codeproject.com/info/cpol10.aspx>

Linkuri către publicații suplimentare care pot fi utile.

<https://www.codeproject.com/info/Licenses.aspx>

<https://opensource.guide/legal/#which-open-source-license-is-appropriate-for-my-project>

4 Despre acest document

Începând cu versiunea 1.0.3.27 a MBox Viewer, pictogramele care reprezintă folderele și arhivele de e-mail s-au schimbat. Arhiva de e-mail era reprezentată de folder icon și acum este reprezentat ca stiva de plicuri de poștă. Dosarul de e-mail a fost reprezentat de pictograma computerului și acum este reprezentat de pictograma dosarului. Cu toate acestea, nu toate instantaneele ecranului au fost actualizate încă pentru a reflecta schimbarea.

5 Feedback

Pentru a contribui la îmbunătățirea MBox Viewer, vă rugăm să postați recenzii ce funcționează și ce nu, creați rapoarte de erori și cereri de îmbunătățiri. Furnizați cât mai multe detalii posibil, cum ar fi țara, capturi de ecran etc.

6 Prezentare generală

MBox Viewer (sau mboxview) este Windows program GUI pentru a vizualiza fișiere mbox, cum ar fi arhivele Thunderbird, arhivele Google mail sau fișiere Eml simple.

Vizualizatorul mbox este un vizualizator de e-mail simplu, dar destul de puternic, care acceptă următoarele caracteristici:

1. suport pentru fișiere mari > 4Gb
2. analizare rapidă a mbox arhive
3. acces rapid la toate atașamentele
4. previzualizare imagine atașamente
5. mărire/micșorare o imagine
6. export de e-mail unic în Eml
7. export de toate e-mailurile în format Eml
8. export atașamente ale tuturor e-mailurilor
9. imprimare toate sau multiple selectate e-mailuri în CSV sau Text sau HTML sau PDF fișiere sau trimiteți la imprimanta PDF
10. imprimați un singur e-mail în Text sau HTML sau PDF fișier sau trimiteți la imprimanta PDF
11. grupați toate e-mailurile conexe ca conversații
12. imprimați e-mail conversație/e-mailuri conexe grupare în CSV sau Text sau HTML sau PDF fișier sau trimiteți la imprimanta PDF
13. deschideți un singur sau multiple selectate e-mails sau grup de e-mailuri conexe într-un browser
14. găsiți textul definit de utilizator în mesajul e-mailului și evidențiați toate aparițiile
15. căutați în data, subiectul, expeditorul, cc, bcc, textul mesajului, textul anexei și numele anexelor
16. căutați e-mailuri care nu se potrivesc cu criteriile de căutare
17. sortare după dată, de la, către, subiect, dimensiune și grupuri de conversații
18. suport pentru câmpurile de antet ale e-mailului și corpul codificat cu diferite seturi de caractere
19. suport pentru capacitatea de editare a listei de e-mailuri pentru a permite utilizatorilor să compună e-mail lista prin fuzionarea rezultatelor din căutări multiple și/sau prin fuzionarea unuia sau mai multor utilizator e-mailuri selectate
20. apossibilitatea de a seta poziția ferestrei de mesaje în partea de jos, dreapta sau stânga
21. posibilitatea de a îmbina/concatena mai multe fișiere de arhivă și de a elimina e-mailurile duplicate
22. apossibilitatea de a personaliza fundalul culorile panourilor de afișare și a mesajului de e-mail
23. apossibilitatea de a personaliza ieșirea antetului de e-mail HTML/PDF

- 24. vizualizați anteturile de e-mail brute
- 25. redirecționați e-mailurile direct din MBox Viewer
- 26. suport pentru etichetele Gmail
- 27. suport pentru ierarhia exportată de fișiere de e-mail de la Thunderbird sau clienți de e-mail similari
- 28. suport pentru Partajarea e-mailurilor (sau Partajarea e-mailurilor)) funcția pentru a permite utilizatorilor să partajeze unul sau mai multe dintre e-mailurile selectate în format HTML și PDF cu alte persoane.
- 29. suport pentru configurații bazate pe registry Windows și bazate pe fișiere
- 30. suport pentru mai multe limbi
- 31. posibilitatea de a controla dimensiunea fontului de către utilizatori

7 Probleme cunoscute

7.1 Rulează MBox Viewer

Ar trebui să ruleze o singură instanță de MBox Viewer la un timp dat. A doua instanță a MBox Viewer este permisă la deschiderea directă a fișierului de e-mail de către MBox Viewer sau la pornirea în modul de previzualizare a e-mailului.

7.2 Restricții privind calea folderului

MBox Viewer se bazează pe sistemul de fișiere Windows pentru a implementa baza sa de date. MBox Viewer creează fișiere ca răspuns la solicitările utilizatorilor, cum ar fi Print to .. [txt|pdf|html|csv]. Pentru a evita problemele, utilizatorul ar trebui să instaleze MBox Viewer și fișierele de e-mail MBOX în foldere cu o cale scurtă, datorită limitării lungimii maxime a numelor de fișiere Windows (255). Numele de fișiere create de MBox Viewer sunt compuse din următoarele părți:

„Calea folderului de instalare” + „Calea celui folder care găzduiește fișierele de e-mail” + „subiect e-mail.[txt|html|pdf|csv]”

MBox Viewer poate reduce lungimea „subiectului e-mailului.[txt|html|pdf|csv]” parte atunci când este necesar, dar alte părți sunt sub controlul utilizatorului.

7.3 Imprimare în PDF

MBox Viewer se bazează pe Microsoft Edge și/sau Google Chrome browsere pentru a imprima direct în PDF.

Personalizarea imprimării este limitată atunci când se imprimă direct în PDF.

Deschiderea e-mailurilor în a browser și imprimarea din browser oferă opțiuni suplimentare, cum ar fi posibilitatea de a elimina culoarea din ieșire sau de a scala paginile.

7.4 Imprimare Mai multe e-mailuri selectate

Mbox Viewer concatenează pur și simplu mai multe e-mailuri în format HTML într-un singur fișier

HTML și deschide fișierul creat într-un browser. Formatul fișierului creat este practic după cum urmează:

```
<div><html><antet e-mail 1 în format HTML></html></div>
<div><html><body> e-mail 1 în format HTML></html></div>
<div><html><antet e-mail 2 în format HTML></html></div>
<div><html><body> e-mail 2 în format HTML></html></div>
<div><html><antet e-mail 3 în format HTML></html></div>
<div><html><body> e-mail 3 în format HTML></html></div>
.....
```

Etichetele <div> sunt utilizate în încercarea de a crea secțiuni independente în documentul HTML.

Abordarea nu funcționează întotdeauna în mod fiabil dintr-o varietate de motive. O problemă cunoscută este că unele e-mailuri cu conținut în format HTML se bazează pe valorile implicite, cum ar fi dimensiunea fontului și pot moșteni dimensiunea fontului de la alte e-mailuri. MBox Viewer a fost îmbunătățit pentru a minimiza astfel de probleme.

În cazuri rare, când imprimați mai multe e-mailuri selectate în PDF, utilizați opțiunea „Îmbinare” pentru a rezolva potențiala problemă.

7.5 Data și ora e-mailului

E-mailurile mai vechi decât timpul epoch, adică mai vechi de anul 1970, sunt acceptate, dar data și ora acestor e-mailuri vor fi mapate la 1 ianuarie 1970. Windows acceptă mai multe funcții diferite de dată și oră, dar numai funcțiile de dată și oră în stil Unix acceptă ora de vară. Cu toate acestea, aceste funcții nu acceptă date mai vechi de anul 1970.

7.6 Căutare

Căutarea de cuvinte este destul de fiabilă pentru cuvintele compuse din caractere din ASCII și ISO-8859-1 (Cunoscut și ca ISO Latin 1) seturi de caractere. Opțiunea de căutare a cuvintelor ar trebui să nu fie setată când căutați e-mailuri care nu sunt compuse din ASCII și ISO-8859-1 seturi de caractere.

8 Instalare

Fișierul executabil și codul sursă pot fi descărcate de pe Sourceforge sau Github.

<https://sourceforge.net/projects/mbox-viewer/files/>

<https://github.com/eneam/mboxviewer/releases>

Descărcați pachetul executabil, cel mai recent mbox-viewer.exe-v1.0.3.54.zip, în directorul de lucru și dezarhivați. Aceasta va crea mbox-viewer.exe-v1.0.3.54 directorul care conține executabilul autonom mboxview.exe executabil, Ghidul utilizatorului, subdirectorul scripts și subdirectorul ReleasePlusStackTrace. Nu sunt necesare privilegiile de administrator pentru a instala și a rula vizualizatorul mbox.

Consultați fișierul HELP.txt în caz de Mcădere Va vizualizatorului.

9 Configurare Date Magazin

```
#
# MBox Viewer acceptă configurarea bazată pe registry-ul Windows și configurarea bazată pe
# fișiere.
# În mod implicit, registry-ul Windows este utilizat pentru a stoca datele de configurare.
# În timpul pornirii, MBox Viewer va verifica dacă fișierul MBoxViewer.config există și este
# inscriptibil în:
#
# 1) subfolderul Config din folderul de instalare al software-ului MBox Viewer sau
# 2) în subfolderul UMBoxViewer\Config din folderul specific utilizatorului creat de sistemul
# Windows
# exemplul: C:\Users\UserName\AppData\Local\UMBoxViewer\Config
#
# Formatul fișierului de configurare este similar cu formatul fișierului registry ".reg"
# [UMBoxViewer\LastSelection]
# "parametru"="valoare"
#
# Spațiile albe nu sunt permise în fața fiecărei linii și în jurul caracterului "="
# Toate valorile parametrilor sunt codificate ca șiruri și convertite de MBox Viewer în numere sau
# alte tipuri de date atunci când este necesar.
#
# Fișierul MBoxViewer.config trebuie codificat ca fișier UTF16LE BOM
#
# Fișierul MBoxViewer.config.sample este inclus în pachetul software din folderul Config.
# Pentru a permite MBox Viewer să utilizeze configurația bazată pe fișiere,
# utilizatorul trebuie să redenumască acest fișier în fișierul MBoxViewer.config sau să copieze
# fișierul eșantion
# în folderul C:\Users\UserName\AppData\Local\UMBoxViewer\Config și redenumiți.
#
```

10 Alergare MBox vizualizator

mboxview programul poate fi executat prin dublu făcând clic pe executabil din din fereastra explorer sau din din linia de comandă tastând numele comenzii și argumentul listă la el.

10.1 Argument Rezumat listă

Mboxview acceptă următoarele opțiuni de linie de comandă.

-FOLDER=folderPath – calea completă către folderul care conține unul sau mai multe fișiere mbox

sau eml. Persistă în registry pe mai multe rulări.

-MAIL_FILE=fileName – calea completă a fișierului sau doar numele fișierului mbox/eml de încărcat. Dacă calea completă nu este specificată, calea completă este creată din folderPath și fileName. Nu persistă în registry pe mai multe rulări.

-EML_PREVIEW_MODE opțiune de linie de comandă pentru a ascunde panourile Mbox Tree și Mail List atunci când este configurat -MAIL_FILE. Tasta ESCAPE va închide vizualizatorul mbox.

-EXPORT_EML=y|n – activează sau dezactivează exportul automat al fișierelor eml generate din arhiva mbox. Îmbunătățește performanța de traversare a e-mailurilor dacă este setat la „n”. Persistă în registry pe mai multe rulări.

-PROGRESS_BAR_DELAY=secunde – bara de progres a căutării este activată atunci când durata căutării durează mai mult decât valoarea setată pentru PROGRESS_BAR_DELAY. Dacă este setat la -1, bara de progres este dezactivată. Valoarea implicită este setată la 1 secunde. Persistă în registry pe mai multe rulări.

-MBOX_MERGE_LIST_FILE=listFile Name și **-MBOX_MERGE_TO_FILE=mergedFile**
Nume opțiuni de linie de comandă pentru a îmbina conținutul fișiere mbox enumerate în listăFile Nume. Cel îmbinat mbox fișier este deschis automat în mbox vizualizator.

Dacă se dorește, în loc să tastați direct opțiunile dorite de linie de comandă, un fișier simplu .cmd sau .bat poate fi creat pentru confort și rulat din explorer.

10.2 Setarea opțiunilor din GUI

The **EXPORT_EML** și **PROGRESS_BAR_DELAY** valori pot fi modificate din mers oricând din GUI.

Faceți clic pe „Fișier” pentru a deschis meniul drop și apoi selectați „Opțiuni” opțiune. Va fi prezentat dialogul de mai jos. Setati valorile dorite urmate de butonul OK.

Rețineți că, dacă exportul de EML fișiere este dezactivat, puteți totuși să exportați the fișier eml pentru e-mailul selectat selectând „Vizualizare EML” din meniul drop-down „Vizualizare”.

Două opțiuni, „**Afișați seturile de caractere**” și „**Setați seturi de caractere pentru câmpurile antet**”, pot ajuta la afișarea corectă a câmpurilor antet în fereastra de mesaj. Vezi 10.31.1.1 pentru detalii suplimentare.

TCaseta de selectare „**Vizualizator de imagini**” activează/dezactivează opțiunea de dialog de opțiune pentru a previzualiza atașamentele de imagini, vezi 10.25 pentru detalii suplimentare.

„**Dialog îmbunătățit de selectare a folderului de e-mail**” este o versiune diferită a opțiunii „**Selectați folderul**” și permite utilizatorului să vadă dacă arhivele de e-mail se află în folder. Utilizatorul trebuie să selecteze orice fișier de e-mail pentru a selecta folderul care conține.

Opțiunea „**Ora**” permite afișarea orei ca Local sau GMT.

Opțiunea „**Tip de sortare a subiectului**” creează fire de subiect când sortează după subiect. E-

mailurile din fiecare fir de subiect sunt sortate după oră. În mod implicit, firele de subiect sunt sortate alfanumeric. Firele de subiect pot fi sortate după oră selectând opțiunea „Fișier->Opțiuni->fire ordonate în timp”.

Opțiunea „**Validați fișierele ca fișiere mbox**” permite utilizatorului să controleze ce fișiere vor fi luate în considerare pentru validare ca fișiere mbox. Validarea se face pe baza conținutului fișierelor.

Options

Date format: ☒ dd/mm/yyyy
☐ mm/dd/yyyy
☐ yyyy/mm/dd

Time: ☒ Local ☐ GMT

Search progress bar startup delay in seconds
1

Export EML: ☒ no ☐ yes

Message Header Character Set IDs (0-65001)
from to subject
0 0 0

Show Charsets: ☐ no ☒ yes

☒ Picture Viewer

☐ Enhanced Select Mail Folder Dialog

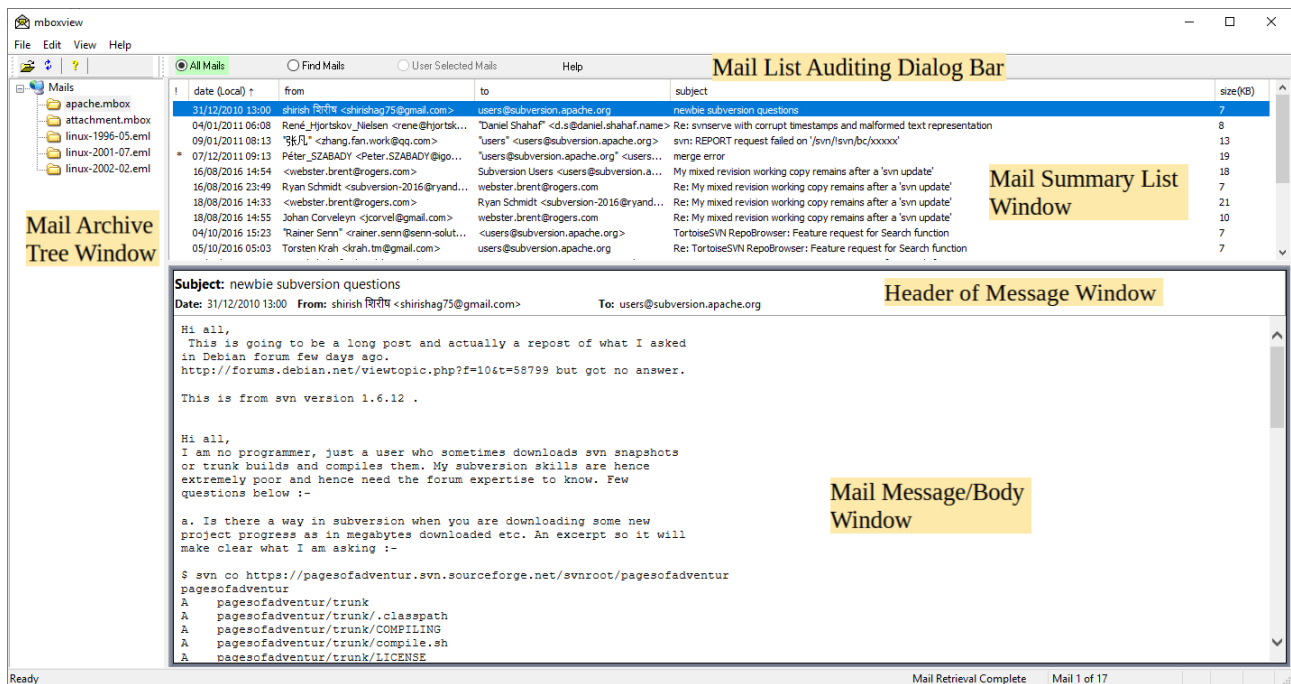
Subject Sort Type
☒ alphabetic ☐ time ordered threads

Validate files as mbox files
☒ .mbox*,.eml,no-extensions
☐ all files

OK Cancel

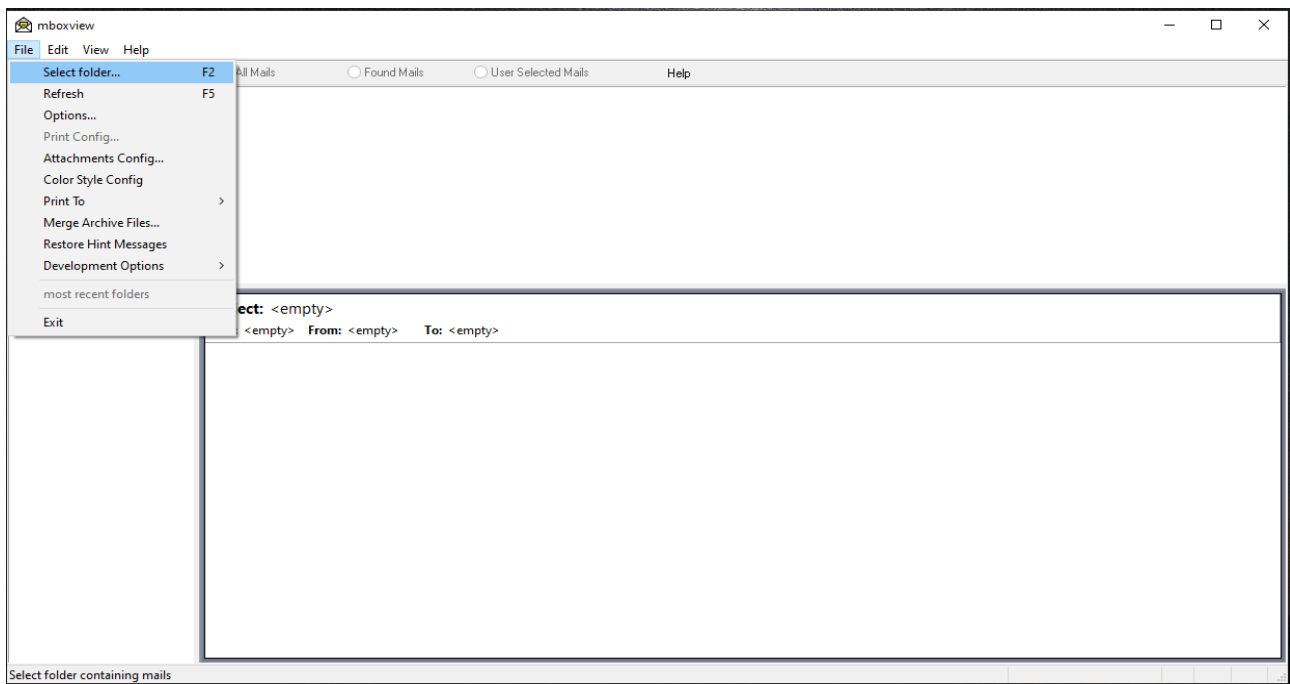
10.3 Caz de utilizare de bază

Faceți dublu clic pe mboxview pentru a porni vizualizatorul. Imaginea de mai jos arată ecranul creat de mboxview după câțiva pași efectuați de un utilizator. Arhiva de e-mail Arbore, ferestrele Rezumat și Mesaj sunt inițial goale după pornire. Pași pentru a încărca o arhivă de e-mail și a afișa conținutul sunt descriși în continuare.



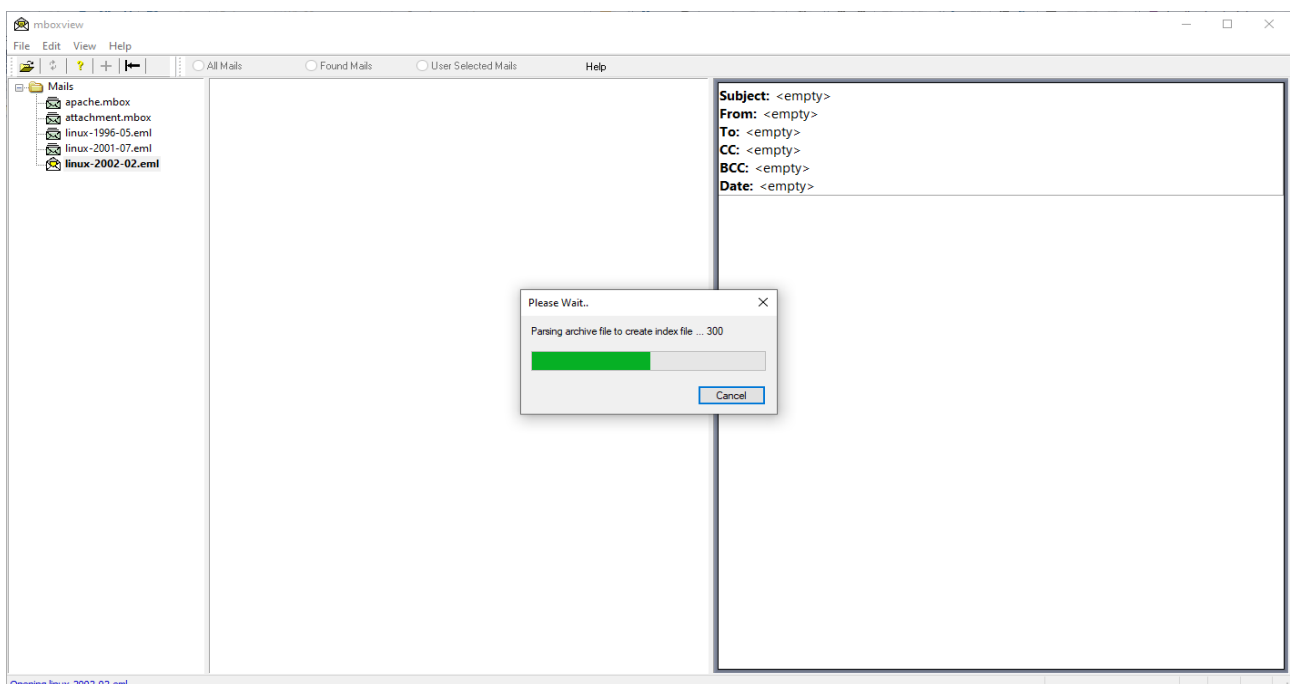
1. Faceți clic pe „Fișier” pentru a deschide meniul drop-down și apoi selectați opțiunea „Selectați folderul...”. Navigați la folderul care conține unul sau mai multe fișiere arhivă de e-mail mbox și/sau eml și selectați-l. Toate fișierele valid de arhivă de e-mail vor apărea în fereastra Arbore arhivă de e-mail .

Rețineți că se poate configura un alt dialog „Selectați folderul” prin dialogul meniu Fișier → Opțiuni.

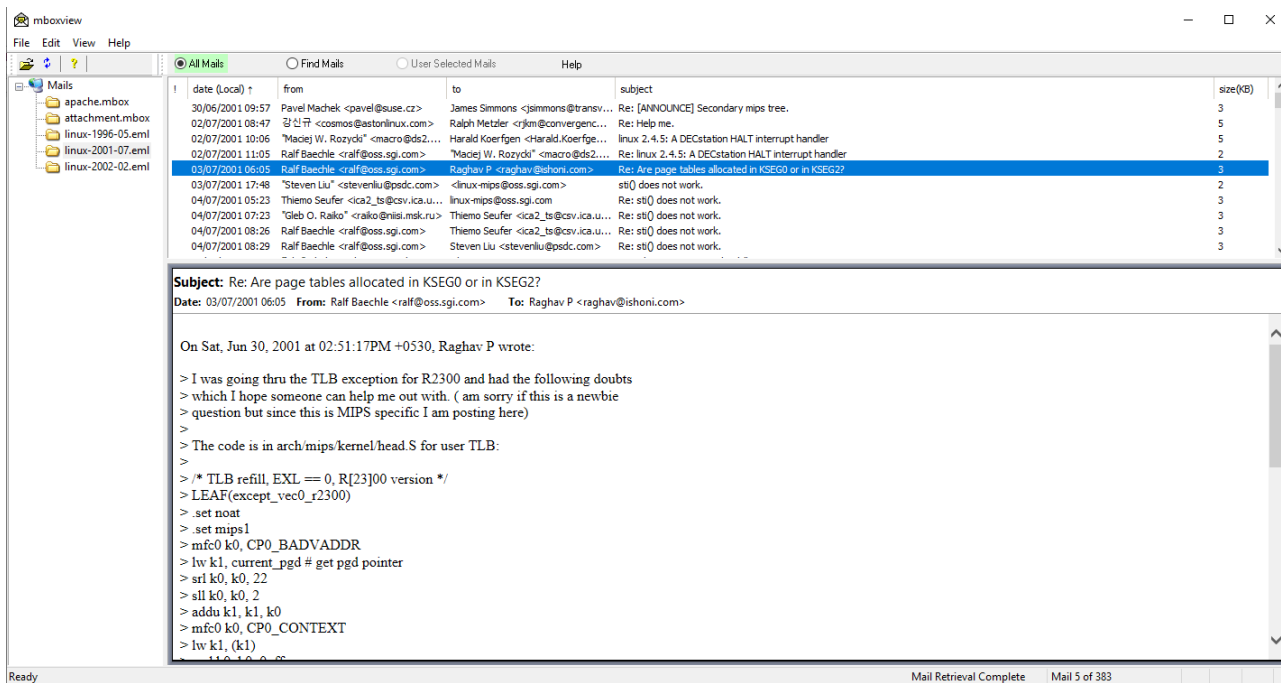


2. Faceți clic pe unul dintre fișierele arhivă pentru a încărca toate e-mailurile din acea arhivă. Va apărea o bară de progres și se va închide automat după ce arhiva selectată este procesată complet. Informațiile din antetul de e-mail al fiecărui e-mail vor apărea în fereastra Rezumat. Rețineți că parsarea unui fișier arhivă foarte mare poate dura ceva timp, deoarece arhivele de e-mail sunt fișiere text și fiecare caracter trebuie examinat unul câte unul.

Cu toate acestea, încărcarea ulterioară a e-mailurilor se face din fișierul index creat de mboxview în timpul parsării inițiale a fișierului arhivă și este mult mai rapidă. Fișierul index creat conține metadate despre conținutul fiecărui e-mail din fișierul arhivă, adică informațiile din antetul e-mailului și poziția fiecărui e-mail în fișierul de e-mail pentru acces rapid la mesajul/corpul e-mailului. Fișierele index au sufixul .mboxview.

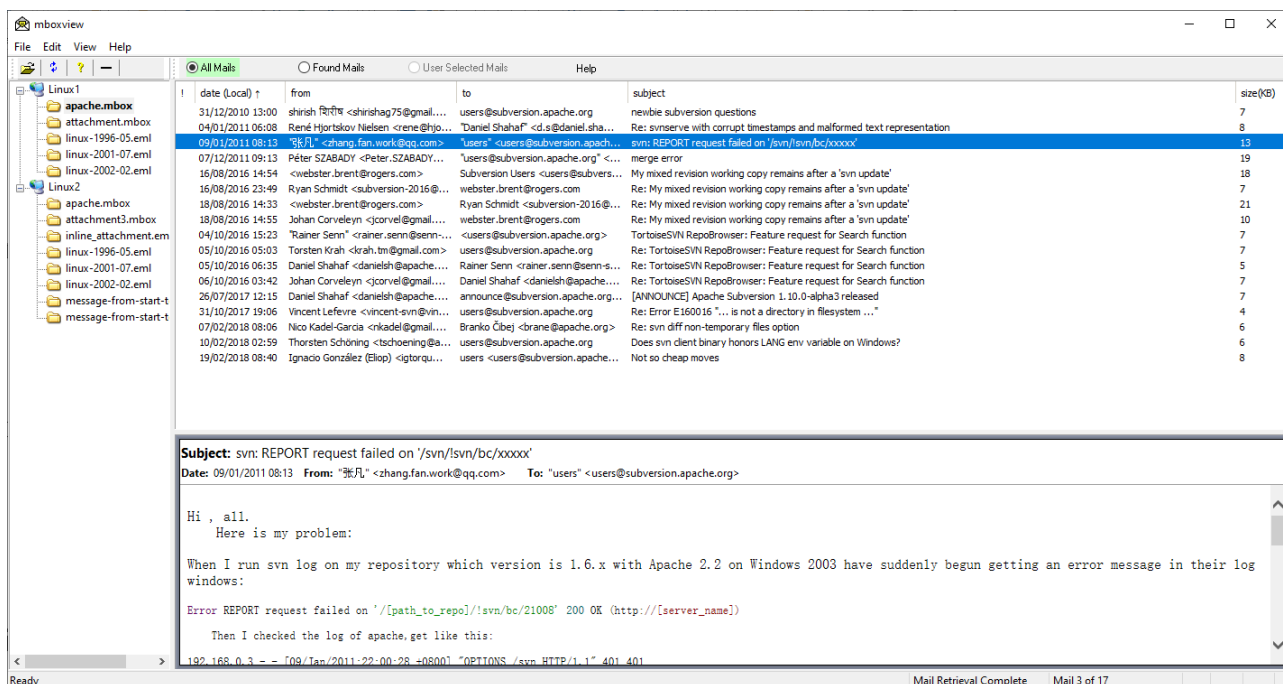


3. Faceți clic stânga pe unul dintre e-mailurile din fereastra Rezumat pentru a afișa Mesajul/Corpul acelui e-mail în fereastra Mesaj. Starea de recuperare a e-mailului, numărul total de e-mailuri din arhivă și poziția e-mailului selectat în arhivă sunt afișate în bara de stare. Se recomandă deschiderea hyperlinkurilor într-un browser extern, deoarece rularea controalelor Java sau scripturi sau ActiveX este dezactivată în browserul intern pentru a îmbunătăți securitatea.



10.4 Suport pentru foldere multiple

De fiecare dată când faceți clic pe „Fișier” pentru a deschide meniul drop-down și selectați un nou folder arhivă de e-mail prin opțiunea „Selectați folderul...”, folderul selectat va fi adăugat la lista folderelor din Arborele de arhivă de e-mail.



Utilizați pictograma +/- de pe bara de instrumente pentru a extinde/restrânge lista de fișiere de arhivă din toate folderele.

Pentru a elimina folderul din listă:

1. Dați clic stânga pe folder pentru a selecta folderul și apoi
2. Dați clic dreapta pe folder și selectați Ștergeți folderul meniu opțiune

Lista folderelor selectate va persista în rulări multiple.

10.5 Suport pentru ierarhia folderelor

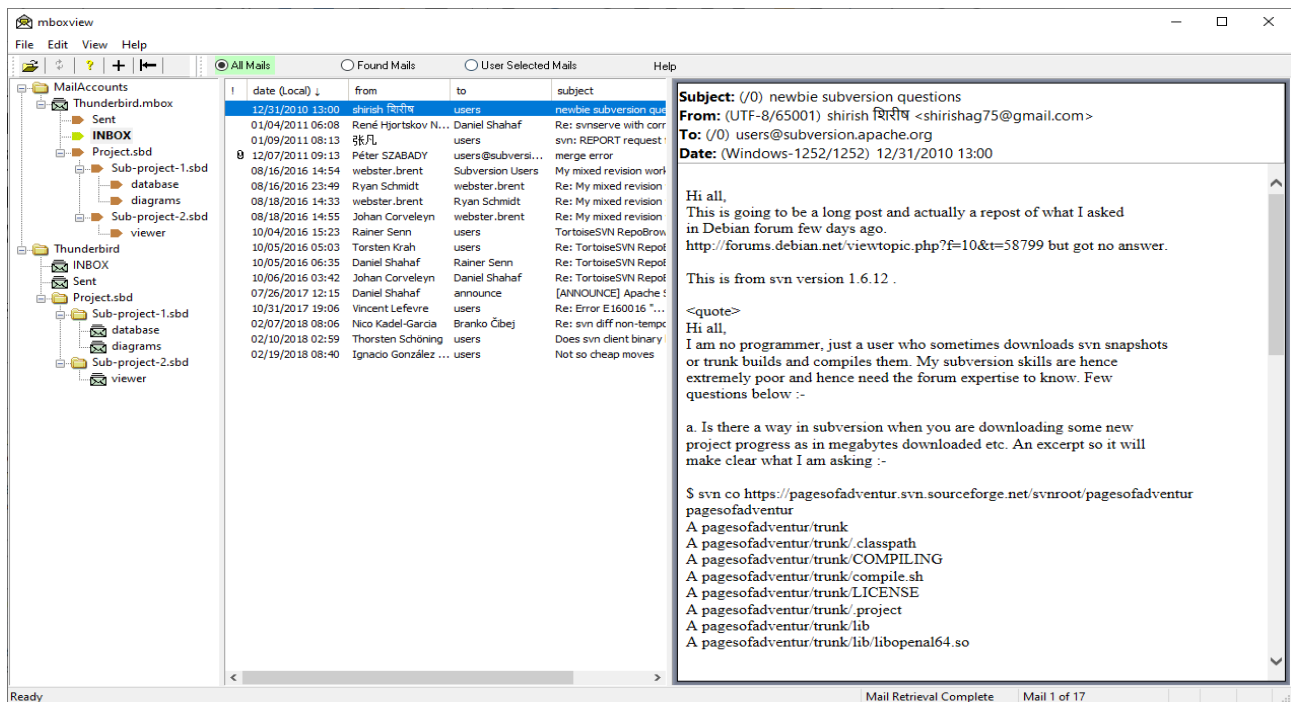
MBox Viewer poate deschide automat fișierele de e-mail care se află în folderul rădăcină și în toate subfolderele. Folosind această capacitate, utilizatorul poate vizualiza mai ușor e-mailurile exportate de Thunderbird sau de clienți de e-mail similari.

Utilizatorul poate selecta una dintre cele două opțiuni pentru a valorifica această caracteristică.

1. Selectați „Fișier → Selectați dosar ca rădăcină dosar ...” opțiune. MBox Viewer va traversa folderul rădăcină și toate subfolderele și va recrea ierarhia folderelor sub arborele de e-mail.
2. Selectați opțiunea „Fișier → Selectați rădăcina folder pentru îmbinare ...” opțiune. MBox Viewer va traversa folderul rădăcină și toate subfolderele, va îmbina toate fișierele mbox descoperite și va recrea structura folderelor ca etichete în stil Gmail. E-mailurile duplicate vor fi eliminate.

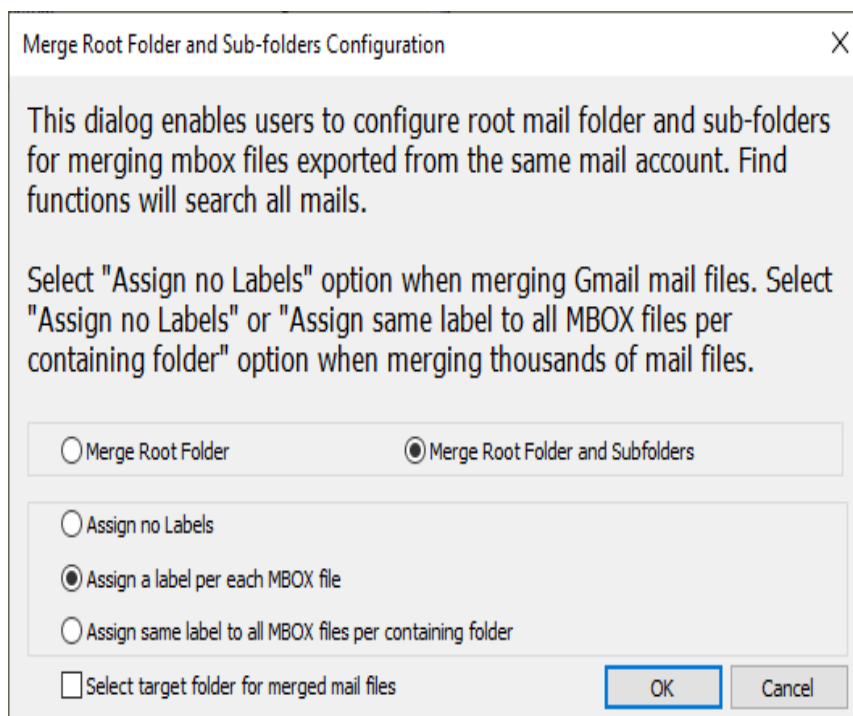
OOptiunea 2, adică îmbinarea, permite căutarea în toate arhivele de e-mail descoperite, în timp ce opțiunea 1 permite căutarea în fiecare fișier de e-mail doar.

SO captură de ecran ilustrează ambele cazuri atunci când sunt aplicate aceluiași folder Thunderbird.



10.5.1 Selectați caseta de dialog Configurare folder rădăcină pentru îmbinare

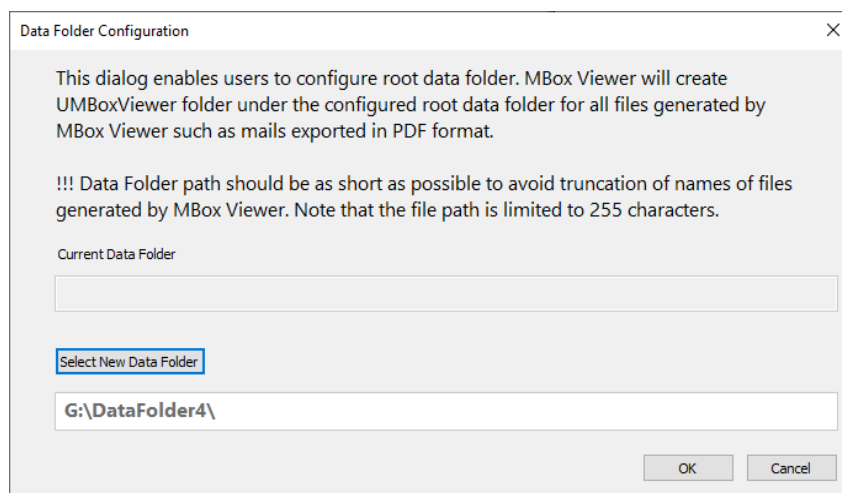
Următorul dialog este prezentat utilizatorului la selectarea opțiunii „Selectați folderul rădăcină pentru îmbinare...”. În plus față de suportul pentru ierarhia folderelor și etichetele în stil Gmail, alte utile opțiuni pentru îmbinarea fișierelor mbox sau eml sunt acceptate.



10.6 Configurarea folderului de date

MBox Viewer va genera fișiere și le va salva pe acestea în folderul de date selectat de utilizator atunci când execută unele dintre opțiuni precum „Imprimare To...”, „Exportați toate e-mailurile ca Eml..”, etc.

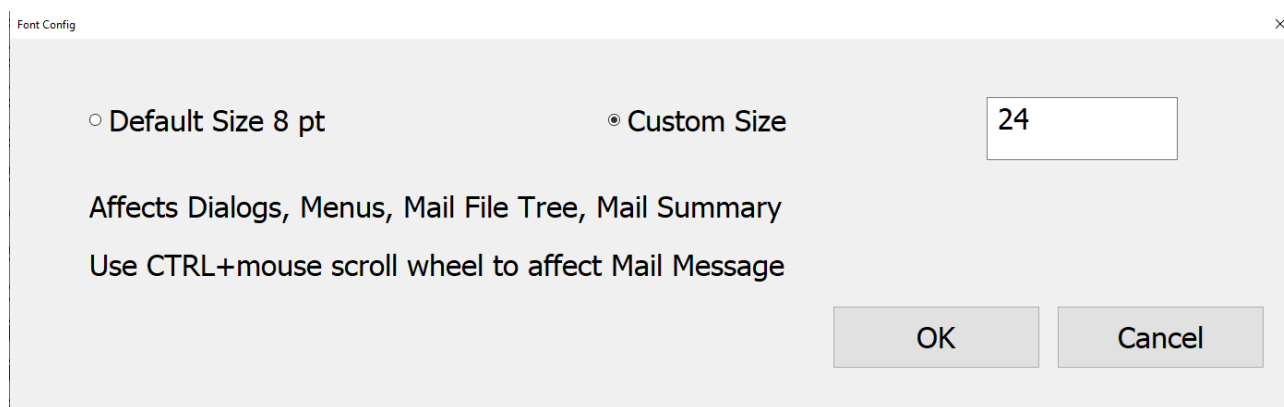
Utilizatorul poate selecta folderul de date selectând dialogul „Fișier-->Configurare folder de date”.



10.7 Configurarea dimensiunii fontului textului

În mod implicit, dimensiunea fontului sistemului este de 8 puncte pentru toate elementele GUI.

Utilizatorul poate configura o nouă dimensiune a fontului prin dialogul „Fișier → Configurare font”.



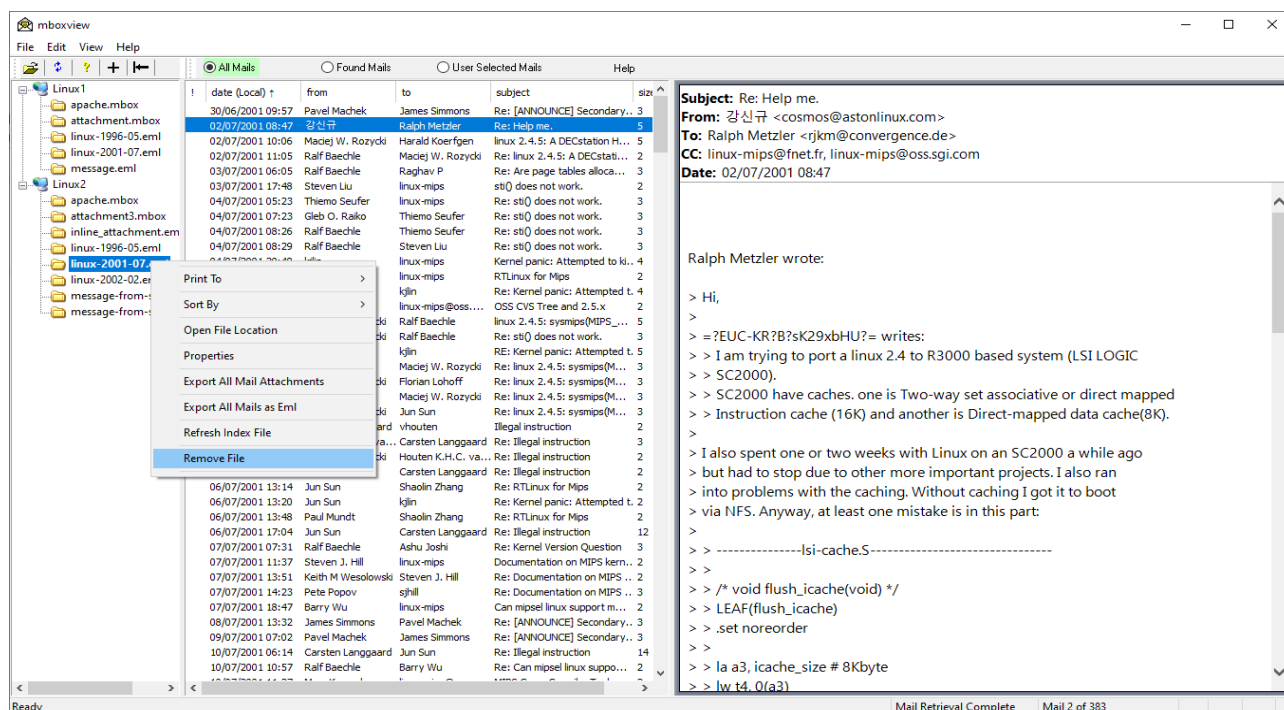
10.7.1 Limitări

1. Dimensiunea fontului tuturor ferestrelor cu titlu (dialoguri, cadru principal etc.) nu este afectată
2. Dimensiunea fontului barei de meniu principală este fixată la 12 puncte.
3. Dimensiunea fontului barei de stare nu este afectată

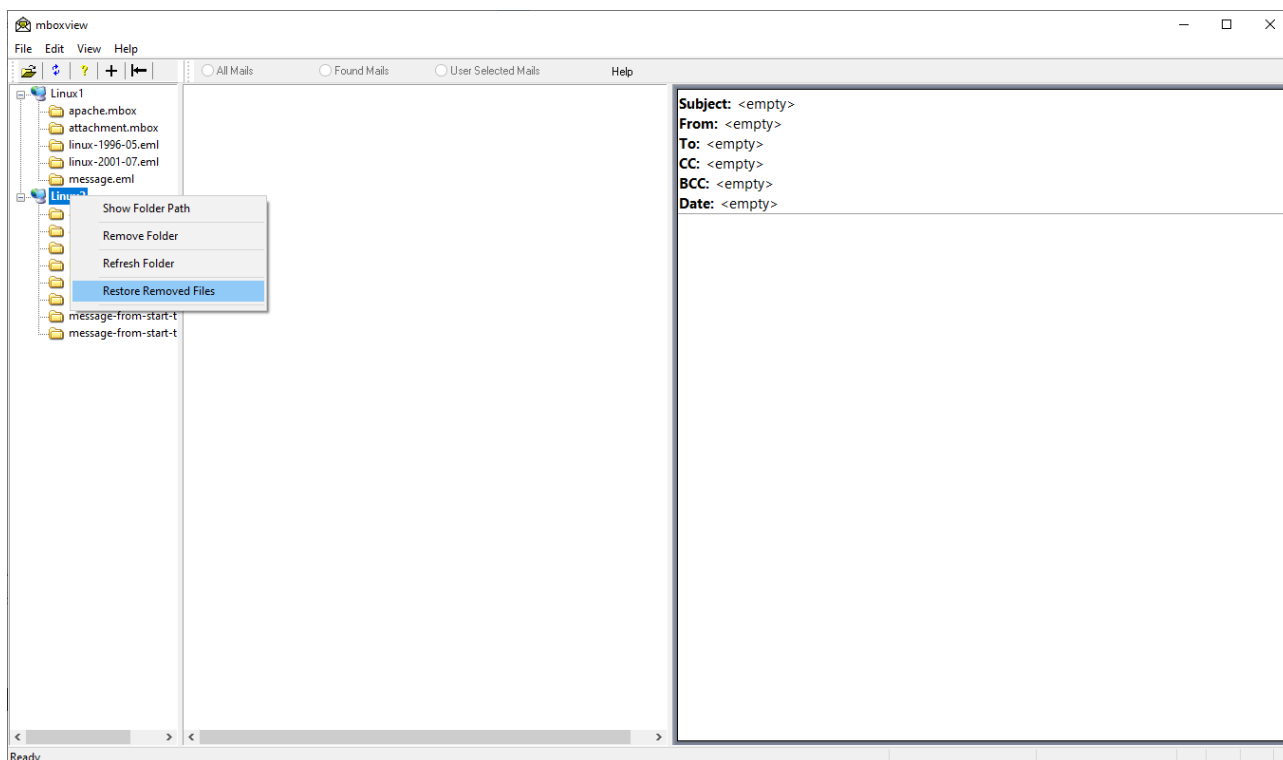
4. Textul mesajului nu este afectat. Utilizatorul poate utiliza CTRL+roțița mouse-ului pentru a schimba dimensiunea fontului

10.8 Ascunderea și restaurarea fișierelor Mbox în fereastra Arbore de arhivă de e-mail

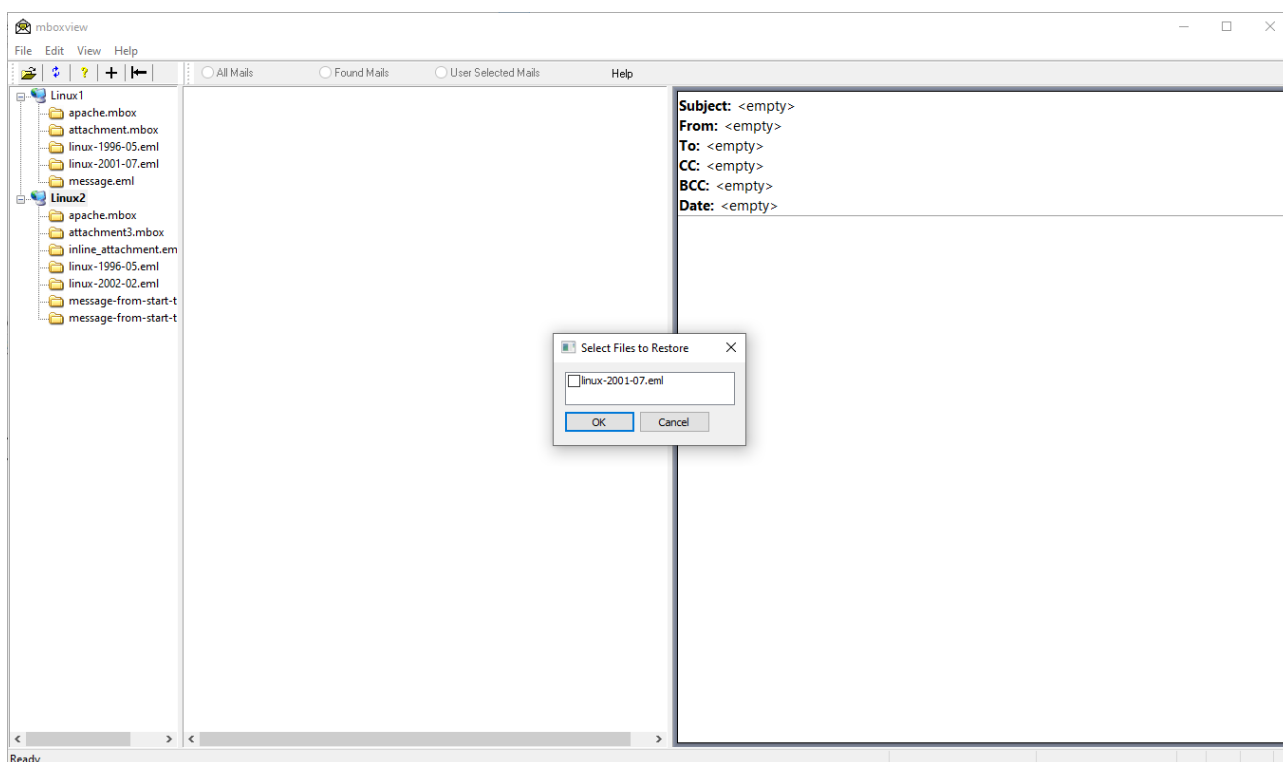
Utilizatorul poate ascunde temporar unele fișiere mbox dacă nu lucrează activ cu aceste fișiere și poate restaura fișierele ascunse mai târziu, când este necesar. Pentru a ascunde un fișier mbox, dați clic dreapta pe un fișier și selectați opțiunea „Eliminare fișier”.



Pentru a restaura ferestrele ascunse, dați clic stânga pe folder pentru a selecta folderul și apoi dați clic dreapta pe un folder și selectați opțiunea „Restaurare foldere eliminate”.



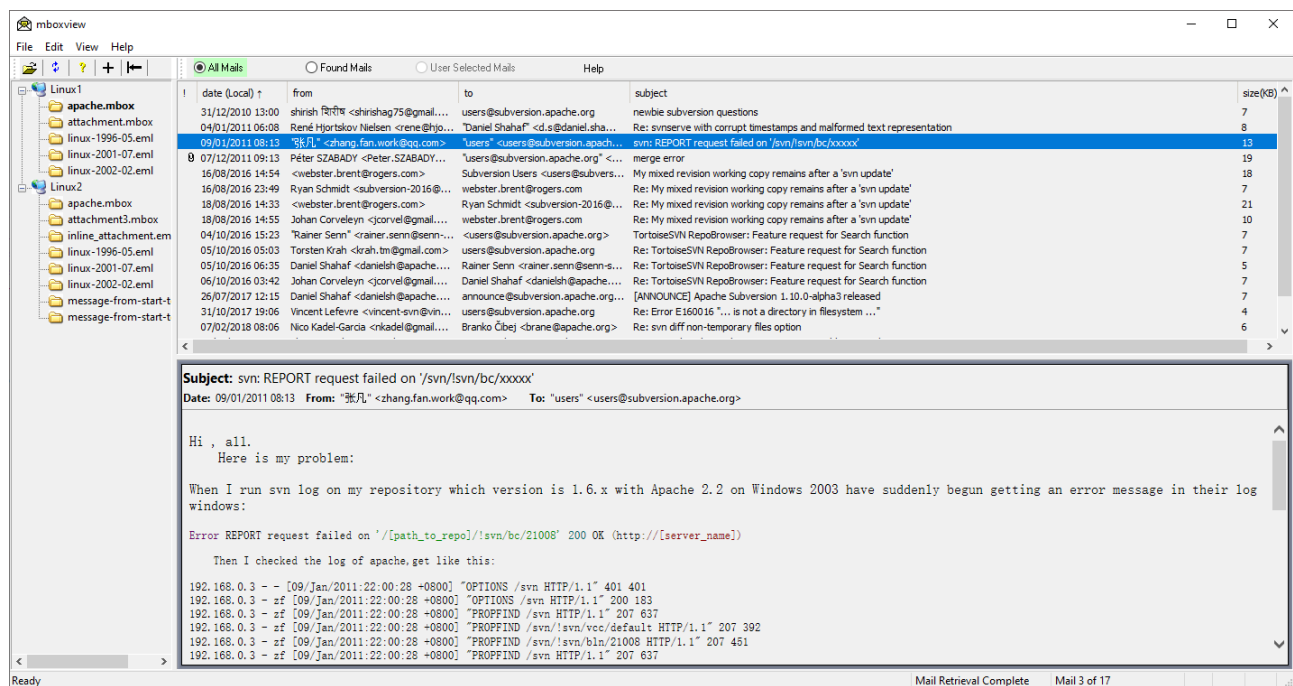
Bifați fișierele de restaurat în caseta de dialog „Selectați fișierele de restaurat”.



10.9 Ascunderea Ferestrei arborelui de arhivă de e-mail

Utilizatorul poate ascunde fereastra arborelui de arhivă de e-mail pentru a mări ferestrele Rezumat e-mail și Mesaj e-mail. Selectați butonul | ← sau → | pentru a ascunde/afșa fereastra arborelui.

Fereastra arborelui poate fi ascunsă numai atunci când este selectat unul dintre fișierele de e-mail mbox.



10.10 Setați MBox Viewer ca aplicație implicită pentru a deschide fișierele de arhivă de e-mail

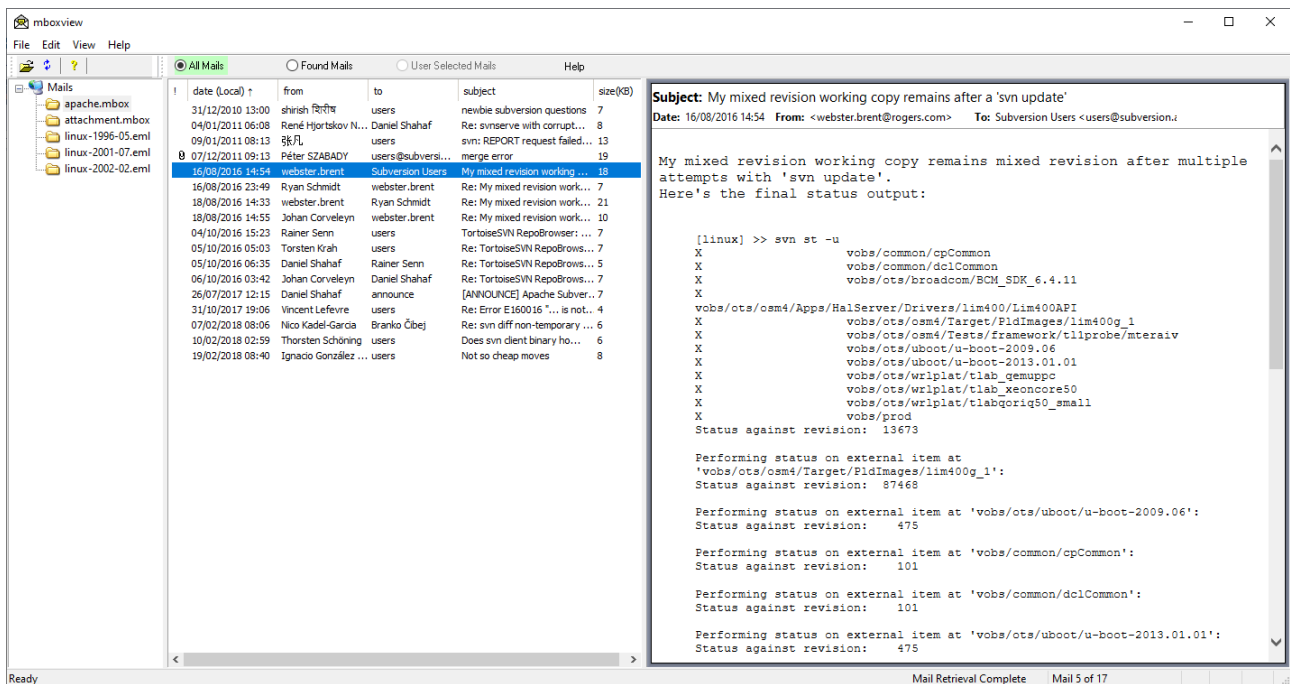
MBox Viewer poate fi configurat ca aplicație implicită pentru a deschide un fișier de e-mail printr-un dublu clic stânga pe fișier. Există mai multe moduri de a seta MBox Viewer ca aplicație implicită. În mod implicit, atunci când dați dublu clic stânga pe un fișier de e-mail, Windows va solicita utilizatorului să selecteze programul pentru a deschide fișierul de e-mail presupunând că nicio aplicație nu a fost setată încă ca implicită. Asigurați-vă că opțiunea „Utilizați întotdeauna această aplicație pentru a deschide.” este setată. Pentru a reface atribuirea curentă, faceți clic dreapta pe fișier și selectați opțiunea „Deschide cu”.

10.11 Poziția ferestrei de mesaje

Poziția ferestrei de mesaje poate fi setată în partea de jos, dreapta sau stânga prin opțiunea Vizualizare → Fereastra de mesaje. După setarea noii poziții, vizualizatorul mbox trebuie repornit pentru ca modificarea să intre în vigoare.

Când poziția este setată la Dreapta sau Stânga, formatul adresei de e-mail se va schimba pentru a afișa e-mail doar numele sau adresa de e-mail dacă numele lipsește.

În mod implicit, poziția ferestrei de mesaje este setată în partea de jos.



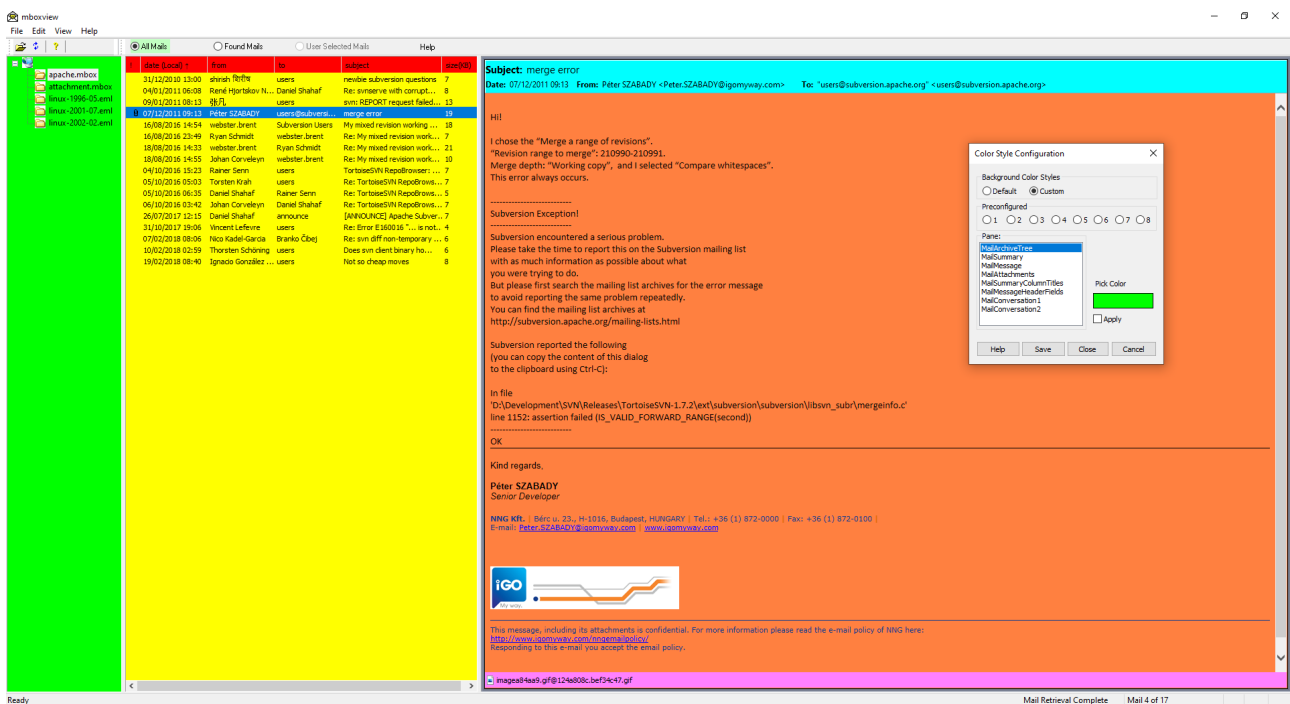
10.12 Păstrarea plasării ferestrelor

Mbox Viewer va salva plasarea ferestrelor la ieșire și o va restabili la următoarea rulare.

10.13 Cust de stil de culoare de fundalimizare

În mod implicit, culoarea de fundal a tuturor panourilor de afișare este setată la culoarea albă.

Selectați „Fișier → Configurare stil de culoare” opțiunea din meniu pentru a personaliza culorile panourilor de afișare. Faceți clic stânga pe butonul Personalizat pentru a începe personalizarea. Va fi creat ecranul similar cu cel de mai jos.



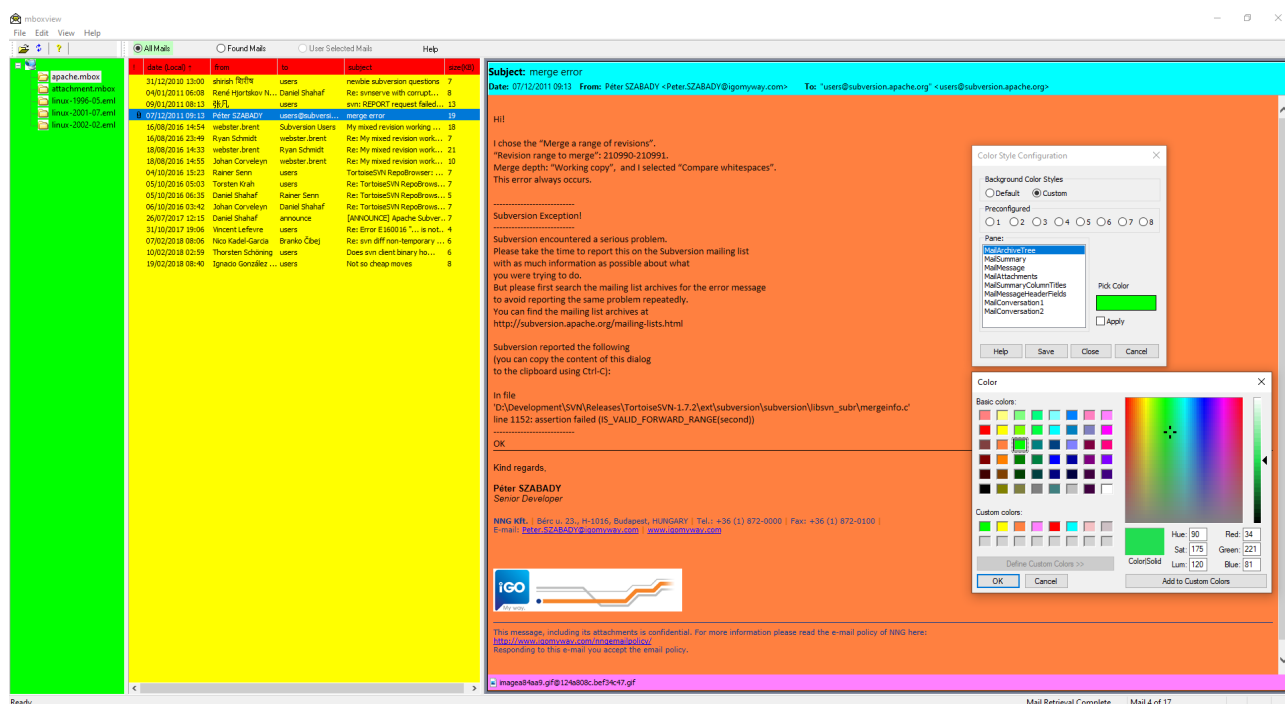
Dialogul Configurare stil de culoare permite utilizatorilor să înlocuiască fundalul alb al celor 8 panouri enumerate în caseta de dialog cu culorile predefinite sau cu culorile personalizate definite de utilizatori.

Caseta de dialog oferă opt stiluri de culoare predefinite pe care utilizatorii le pot evalua înainte de a încerca să configureze stilul de culoare personalizat. Este util să deschideți unul dintre e-mailurile cu atașamente pentru a ajuta la evaluarea stilurilor de culoare predefinite și personalizate.

Selectați butonul radio „Personalizat” pentru a începe configurarea stilului de culoare personalizat.

Configurați aceeași culoare sau o culoare diferită pentru fiecare panou (MailArchiveTree, etc).

Selectați unul dintre panouri și faceți clic stânga pe butonul „Alege culoarea” pentru a porni „Caseta de dialog Selecție culoare”.



Butonul „Alege culoarea” va fi populat inițial cu culoarea asociată panoului selectat.

Linia de sus a zonei Culori personalizate va fi populată inițial cu culorile asociate fiecărui panou.

Puteți schimba culoarea în patru zone diferite. Secțiunea din stânga sus afișează o listă cu 48 de culori predefinite.

Dacă culoarea dorită nu se află în acea secțiune, puteți face clic pe firul încrucișat și puteți trage mouse-ul în paleta multicoloră.

De asemenea, puteți trage bara din dreapta care afișează o gamă bazată pe culoarea paletii.

Pentru mai multă precizie, puteți introduce valorile Roșu, Verde și Albastru în zona editorului de culori personalizate. Fiecare folosește ună valoare integrală care variază de la 1 la 255.

Odată ce sunteți mulțumit de culoarea personalizată, faceți clic stânga pe butonul OK din

"Caseta de dialog Selecție culoare". "Caseta de dialog Selecție culoare" se va închide și controlul va reveni la "Configurarea stilului de culoareiguration".

Butonul „Alege culoarea” va fi vopsit cu culoarea personalizată creată. Faceți clic stânga pe butonul „Aplică” pentru a aplica noua culoare panoului selectat. Faceți clic stânga din nou pe butonul „Aplică” pentru a anula modificarea.

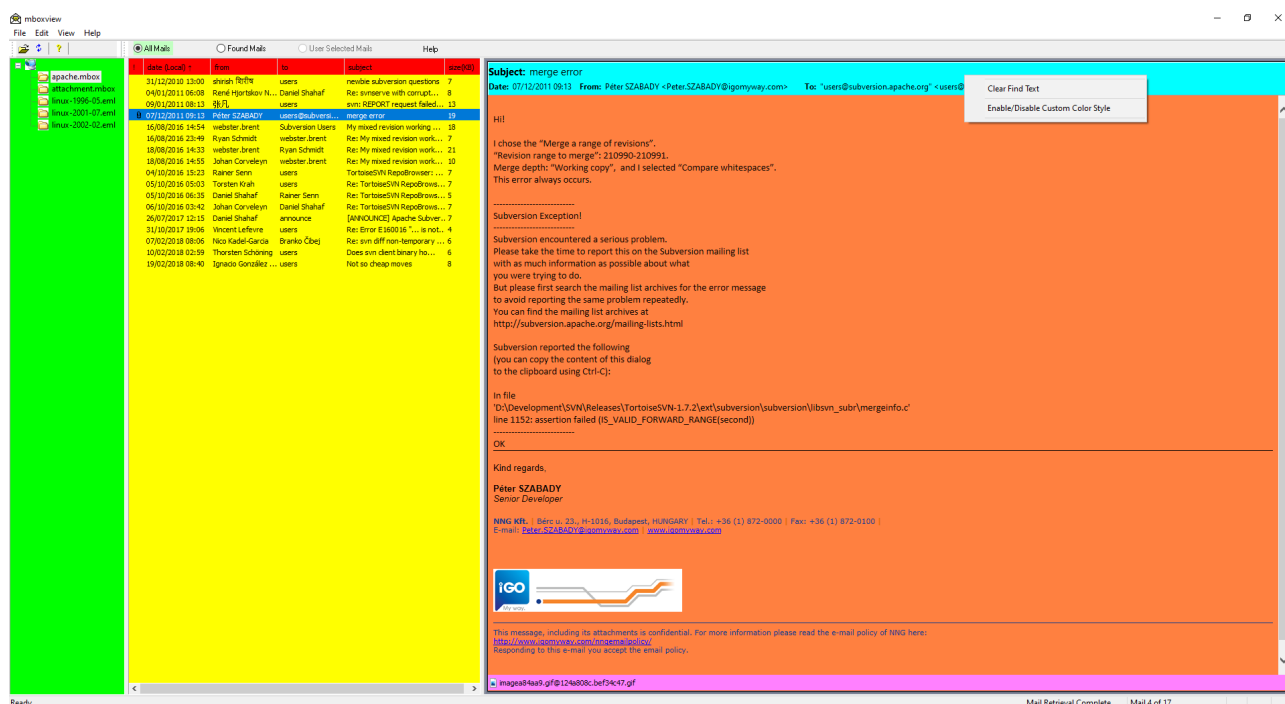
Faceți clic stânga pe butonul Salvare pentru a salva modificarea pentru ca modificarea să persiste după închiderea vizualizatorului mbox. Sau, personalizați mai întâi culorile tuturor panourilor și apoi faceți clic stânga pe butonul Salvare pentru a salva toate modificările.

Faceți clic stânga pe butonul Anulare pentru a renunța la toate modificările efectuate de la ultima salvare sau pornire.

Faceți clic stânga pe butonul Închidere sau pe butonul Închidere standard Windows pentru a ascunde „Caseta de dialog Selecție culoare”. Modificările efectuate până acum nu sunt eliminate.

Pentru a redeschide, selectați Fișier -> opțiunea din meniul Configurare stil de culoare.

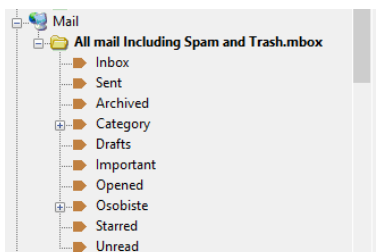
NOTĂ că stilul de culoare salvat va fi aplicat tuturor e-mailurilor. Puteți dezactiva temporar stilul de culoare personalizat pentru e-mailul activ făcând clic dreapta pe antetul e-mailului în fereastra mesajului de e-mail și selectând opțiunea de meniu Activare/Dezactivare stil de culoare personalizat.



10.14 Suport pentru etichetele Gmail

Utilizatorul poate efectua un pas separat pentru a recrea etichetele Gmail pe arhivele de e-mail

Gmail mbox. Informațiile despre etichetele Gmail sunt incluse în fiecare e-mail descărcat de pe Gmail. Pentru a recrea etichetele, utilizatorul trebuie să facă clic dreapta pe o arhivă de e-mail Gmail activă în panoul arborescent și să selecteze opțiunea „Etichete Gmail → Creați”. Aceasta va crea foldere ca în exemplul de mai jos. Faceți clic stânga pe pictograma folderului pentru a vizualiza toate e-mailurile din etichetă.



Selectați pictograma folderului pentru a vizualiza din nou toate e-mailurile. Butoanele „Toate e-mailurile” și „E-mailuri găsite” sunt aplicate etichetei când a eticheta este selectată. Conținutul „E-mailurilor selectate de utilizator” este partajat între toate etichetele folderului activ și folderul.

10.14.1 Limitații

IDacă decideți să ascundeți/eliminați folderul din panoul arborescent prin opțiunea „Eliminare fișier” și ulterior să restaurați prin opțiunea „Restaurare fișiere eliminate”, etichetele Gmail nu vor fi restaurate automat până când nu recreați etichetele.

10.15 Extindeți antetul mesajului Lista câmpurilor

Când poziția ferestrei de mesaj este configurată în partea de jos, lista antetelor de mesaj nu afișează câmpurile antetului mesajului CC și BCC. Acest lucru poate fi modificat prin opțiunea „Vizualizare -> Aspect panou antet mesaj -> Extins”.

10.16 Vizualizarea antetului mesajului brut

The raw message headers can be viewed in the message window by setting “View → View Raw Message Headers” option. This is the global change and it needs to be disabled to view messages content again. The raw message header can be viewed by doing the right click on the message header pane and setting “View Raw Header” option. The setting doesn’t persists when new mail is selected.

10.17 HTML/PDF Mail Header Customization

The HTML/PDF Header Configuration dialog allows users to select mail header fields for output and to configure fonts for the field name and field text. User can also configure to output the list of all attachments. The customization dialog is selected via “File” --> “Print Config” --> “HTML/PDF Header Configuration” button.

There are two options to configure fonts: Default and Custom.

The Default option allows to configure:

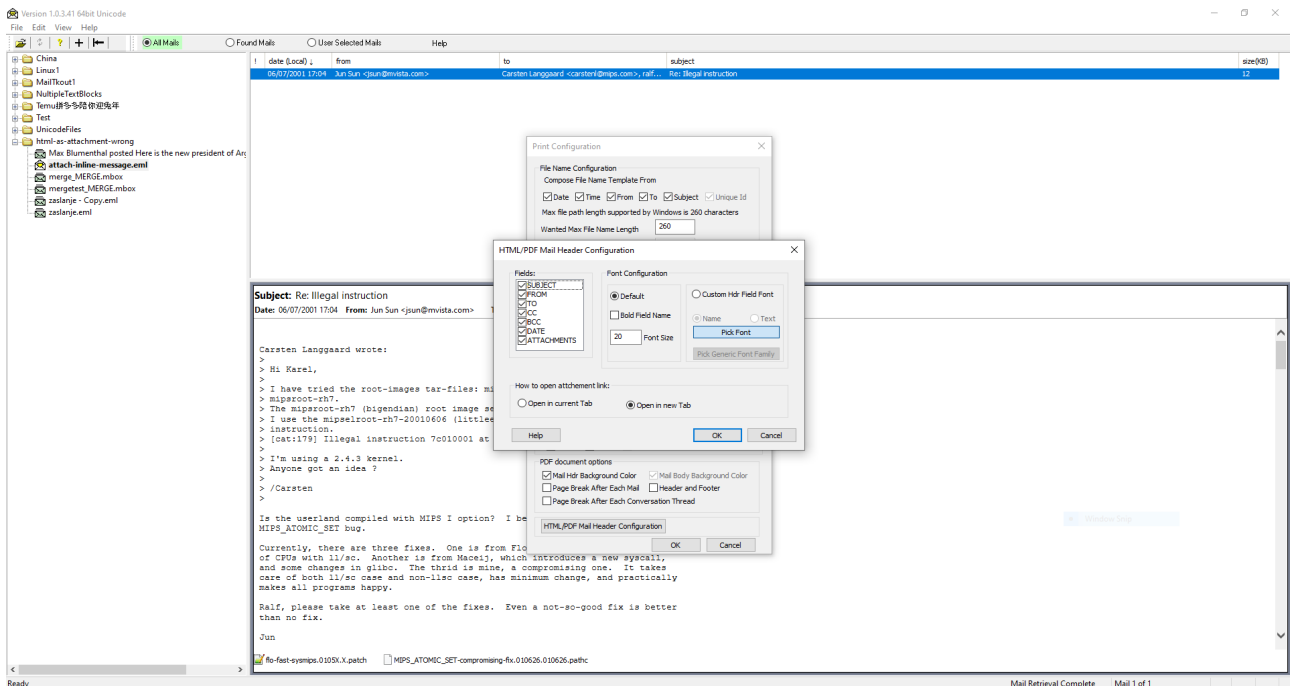
1. the font size which be applied to both the field name and text.
2. the bold font style which will be applied to the field names only.

The Custom option allows to configure:

1. the same or different font for the header field names and text.
2. the font dialog allows to configure the font name, style and size.
3. the generic family font in addition to the primary font configured via the font dialog.

The following links contain helpful information on HTML fonts.

[HTML Fonts](#)
[Fonts and Formatting](#)



User can also configure how to open document/attachment link in Web browser.

10.18 Single Mail Context Menu

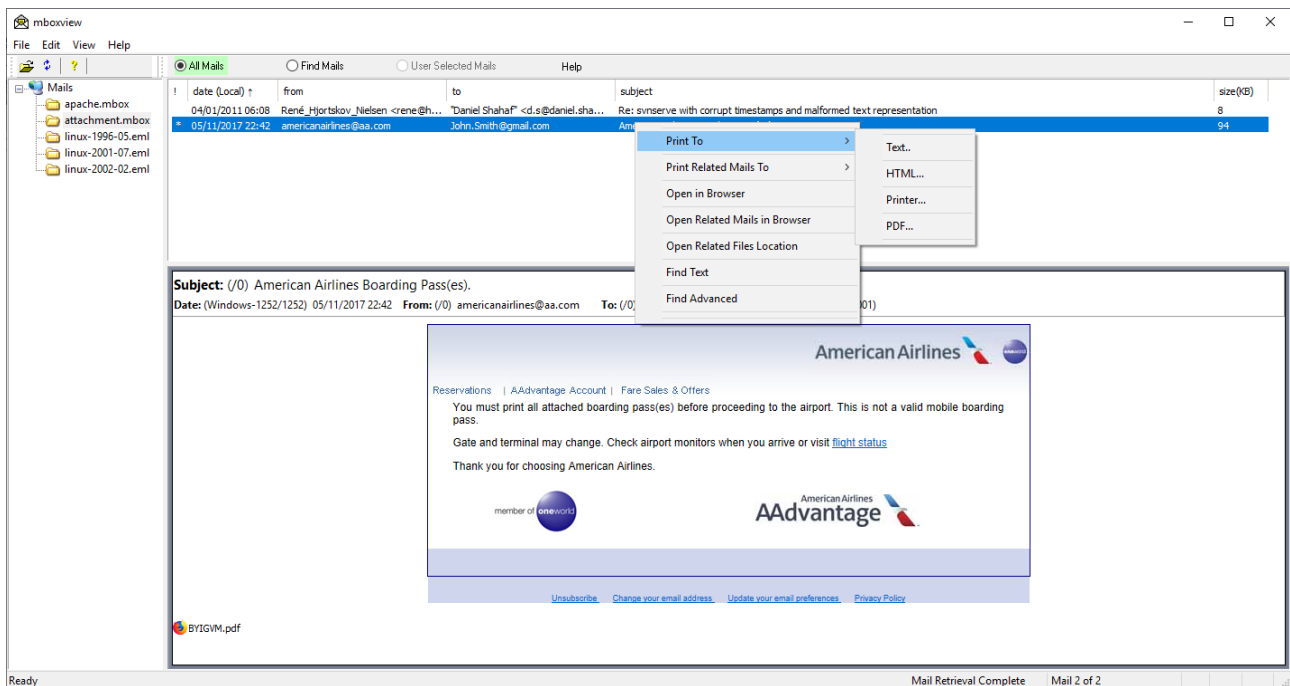
Right Click on a selected mail in the Summary Window to open the context menu as shown below.

The “Print to” context menu allows to print the selected mail to Text, HTML or PDF file or to send to the user selected PDF printer.

The “Open in Browser” menu option will open the selected mail in the external default Web Browser.

The “Find Text” option allows to find user specified text and highlight all occurrences in the Message window.

The “Find Advanced” options will start the advanced search dialog and pre-populate From, To and Subject fields from the mail.



10.18.1 File Names

User can configure file name pattern/template to apply when printing single mail by selecting File -> Print Config dialog. Pattern is composed from Date, Time, From, To, Subject and Unique Id fields. Only alpha numeric characters are selected from the Subject, other characters will be replaced with the underscore.

Files will be saved in the FolderHousingMailArchives/PrintCache/MailArchiveName folder, where MailArchiveName denotes the archive file name without the .mbox extension.

User must enter the target file name manually when printing to PDF printer, i.e. when selecting Print to → Printer mail option or when printing mail to pdf file from the browser.

Print Config dialog allows users to configure the maximum length of created file name. The maximum file path length supported by Windows is 260 characters for non Unicode applications. Therefore the file name will be limited to (260 – length of FolderHousingMailArchives/PrintCache/MailArchiveName/MailFileName) path. User can set wanted file name length limit and the mbox viewer will adjust the configured length if needed.

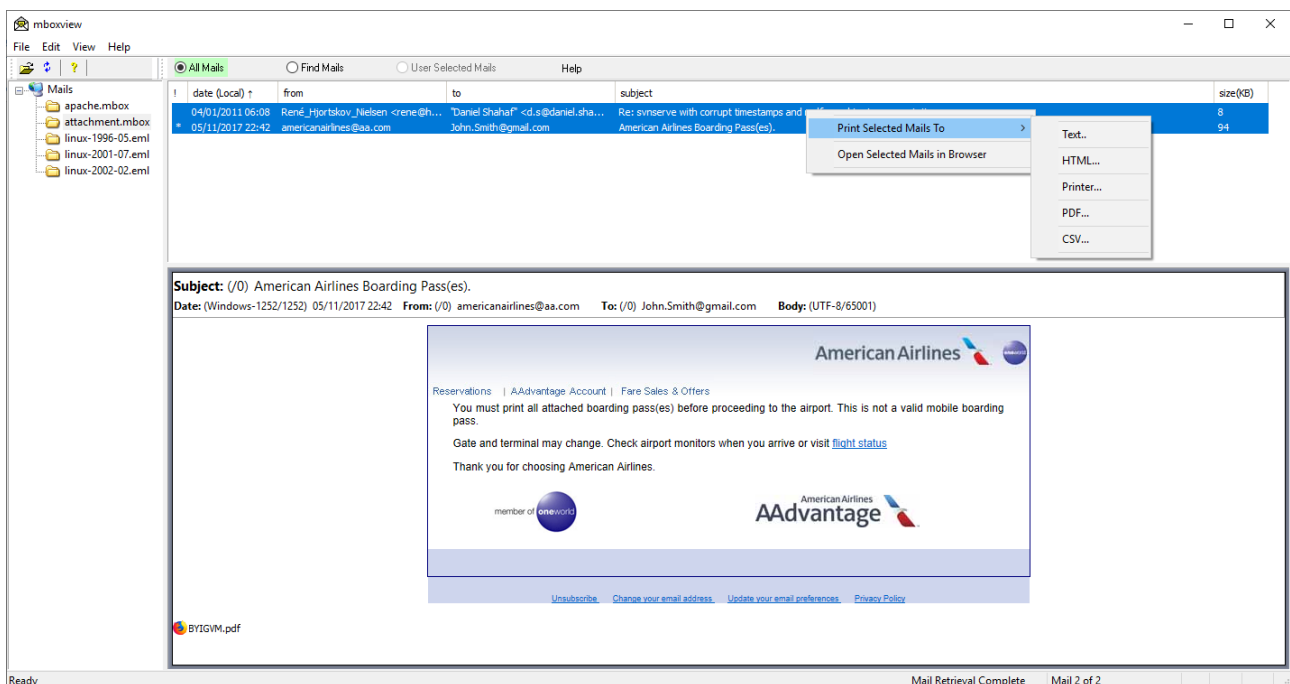
10.19 Multiple Selected Mails Context Menu

Multiple mails can be selected using Windows standard method, i.e. Left click followed by Shift+LeftClick or CTRL+LeftClick or CTRL+A.

Right Click on a multiple selected email in the Summary Window to open the context menu as shown below.

The “Print Selected Mails to” context menu option allows to print the selected mails to single Text or HTML or CSV or PDF files or send to the user selected PDF printer. See also 10.33.7 “Mail Printing to PDF files by Power Users” section.

The “Open Selected Mails in Browser” menu option will open the selected mails in the external default Web Browser.



10.19.1 File Names

User can't configure file name pattern/template to apply when printing multiple mails to a single file. The file name is automatically composed from the archive file name with appropriate extension, i.e. .txt or .htm or .csv or .pdf.

Files will be saved in the FolderHousingMailArchives/PrintCache/MailArchiveName folder, where MailArchiveName denotes the archive file name without the mbox extension.

User must enter the target file name manually when printing to PDF printer, i.e. when selecting Print Selected mails to → Printer mail option or when printing mail to PDF file from the browser.

10.20 Conversation Mail Group Context Menu

All Mails must be sorted by the conversation first before context options can be processed. See 10.27 section.

Right Click on any mail within the selected conversation group in the Summary Window to open the context menu as shown in 10.18 section.

The “Print Related Mails to” context menu option allows to print the selected group of mails (conversation) to Text, HTML, CSV or PDF file or to send to the user selected PDF printer.

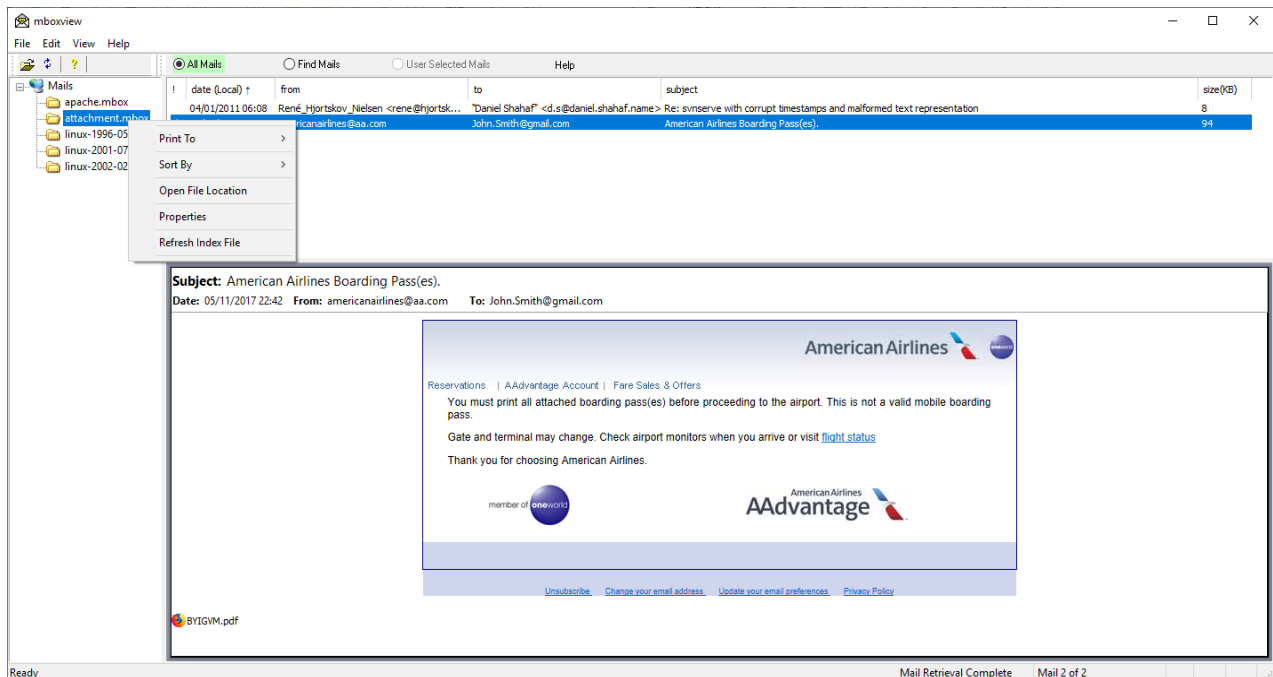
The “Open Related Mails in Browser” menu option will open the selected mail group in the external default Web Browser.

10.20.1 File Names

See 10.19.1 section.

10.21 Mail Archive Context menu

Right click on the active mail archive under the Mail Archive Tree Window to open the context menu as shown below.



The context menu allows to print all email to single CSV, Text , HTML and PDF files. The name of the created file will be created based on the archive file name with the .csv or .txt or .html or .pdf suffix in the FolderHousingMailArchives/PrintCache/MailArchiveName folder, where MailArchiveName denotes the archive file name without the mbox extension. NOTE that mails will be printed according to the sort order in the summary window.

Size of HTML file can be very large and opening in most of the browsers can be problematic. Microsoft Edge and Google Chrome browser seem to perform best as far as handling large HTML files.

When printing to TEXT file, HTML to Text conversion was added in 1.0.2.8 to handle mails with HTML text block and no Plain text. Conversion can be quite slow and print time could increase significantly compared to 1.0.2.7 in case the large number of conversions is required. Progress bar was added to indicate progress, possibly slow progress.

Printing to single PDF file is the most time consuming. See also 10.33.7 “Mail Printing to PDF files by Power Users” sections for larger scale printing to single PDF file.

All mails of the active archive can be sorted by date, from, to subject, size and conversations in the

Summary Window. This feature is the same as the left click on the selected column in the Summary Window.

The “Properties” option shows the archive file location, size and email count

The “Refresh Index File” option will perform fresh parse of the archive file if needed.

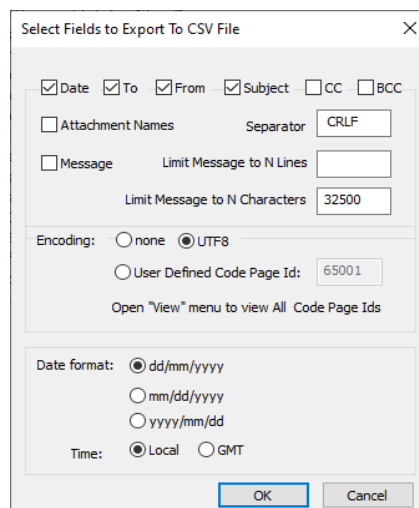
10.21.1 Print to CSV File Dialog

When printing selected mail archive or selected set of mails by a user to CSV file, user can select what fields to export, the date format and one of two time zones.

Option to normalize content encoding is also available. Default encoding is set to UTF-8 and should not be changed except possibly in special cases.

The “Limit Message to N Characters” value is set by default to 32500 characters and it should not be set higher otherwise Excel and LibreOffice will complain that the character count limit per spreadsheet cell was exceeded. LibreOffice will gracefully handle the text overflow, Excel spreadsheet will get **corrupted**.

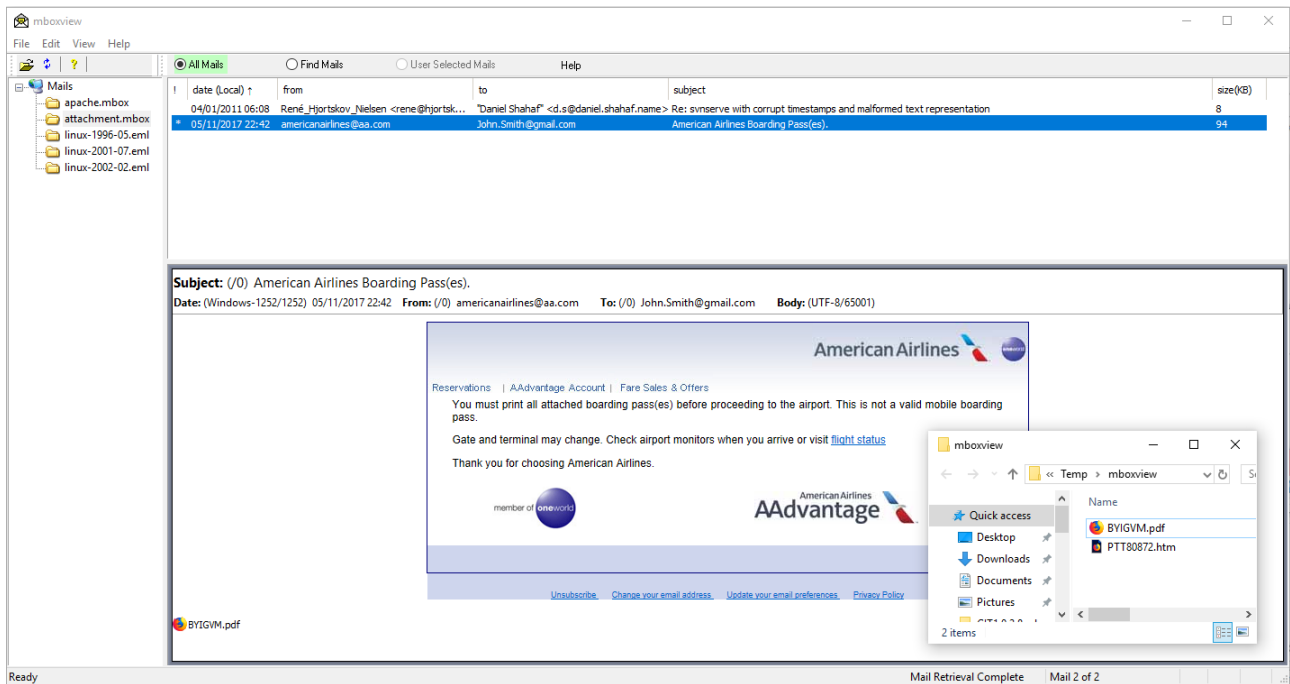
User can configure string that separates attachment names. The special CRLF string will be replaced with \r\n string in the CSV output.



10.22 Mail Attachments

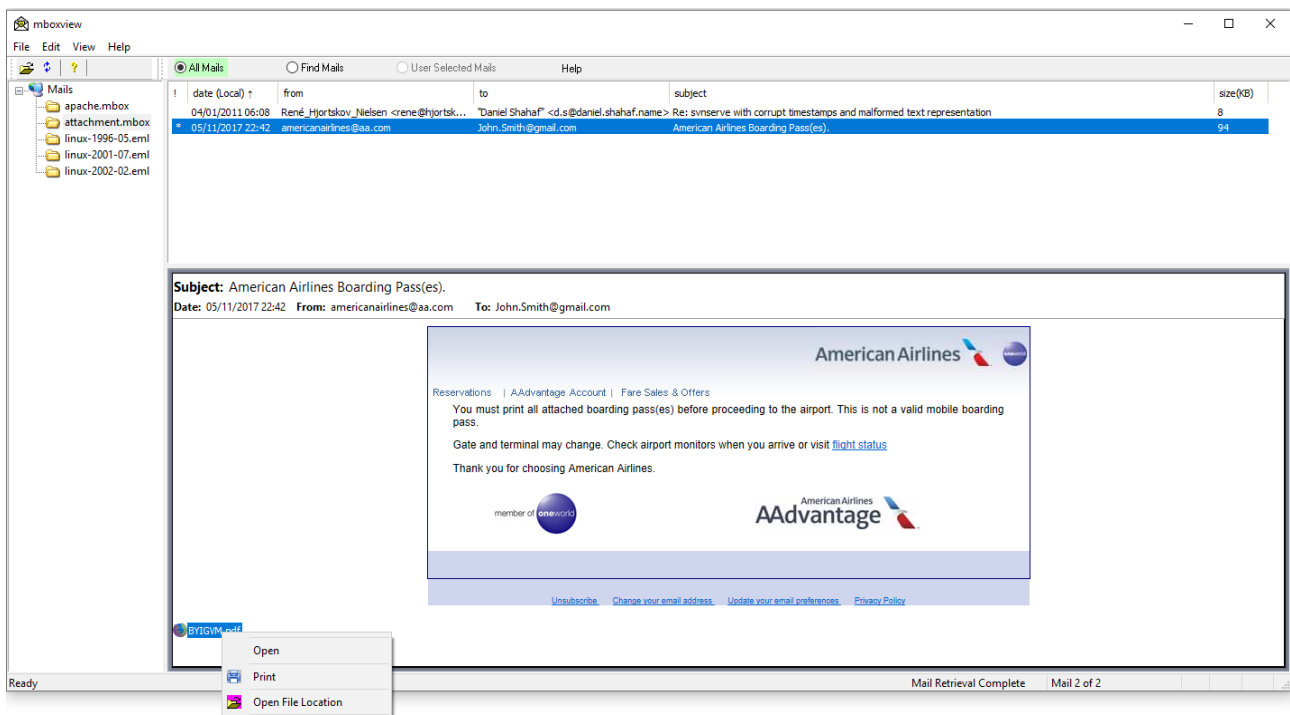
Mail attachments are shown at the bottom of the Message window. Note that the “*” character may appear in the first column for the associated mail to indicate presence of associated attachments. To open location of attachments, double click on the mail in the Summary window or select “View” → “ViewEML” menu option. Temporary folder will open containing all attachments for the email. Use standard Windows applications to view attachments.

You can also double left click to view attachments. Picture attachments will be viewed in the Picture Viewer (if configured in the global Options) and other file types will be viewed by the associated default Windows applications.



10.22.1 Attachment context menu

Right click on the selected attachment to open the context menu. The context menu allows to open or print the attachment by the associated default application. You can also open the folder housing the attachment. The selected attachment will be highlighted in the folder.

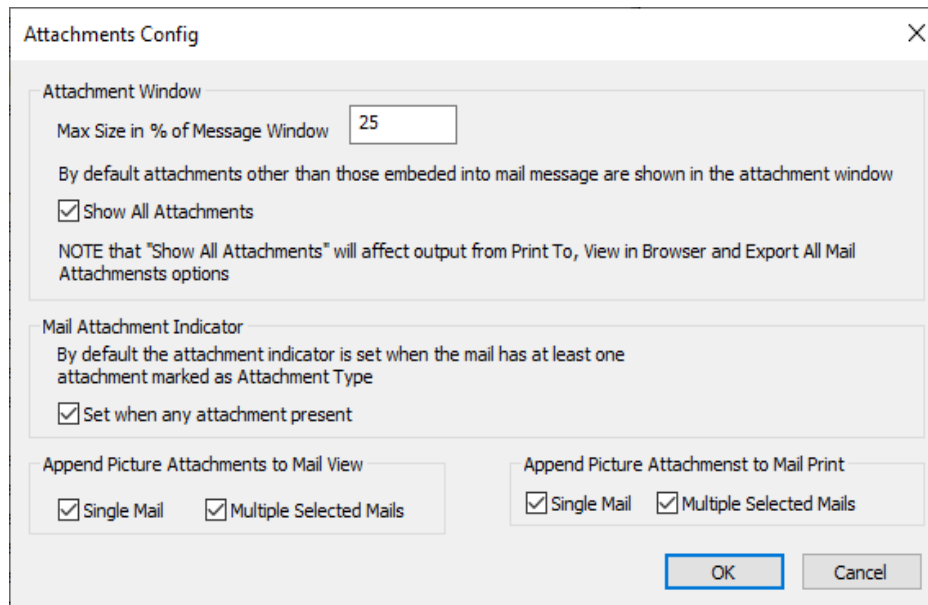


10.22.2 Attachments Configuration

The "Attachment Config" dialog enables users to configure attachment window size, content and attachment indicator criteria. Users can also configure whether image attachments should be

appended to mails when showing and/or printing.

Select “File → Attachment Config” to access the dialog.



10.22.3 Exporting All Attachments of All Mails

User can export all attachments to the AttachmentCache folder by right clicking on the active mail archive and selecting “Export All Mail Attachments” option. To avoid appendix name clashes, Mbox Viewer will prepend the following prefix to each attachment name:

YYYYMMDD-HHMMSS-IDDDDDD attachment name

where YYYY denotes the year, MM denotes the month, DD denotes day, HH denotes hour, MM denotes minutes, SS denotes second of a mail and IDDDDDD denotes unique ID assign to this email.

10.23 Inline Image Cache

The mboxview will create the cache of inline images to support images embedded directly into the mail body/message. The cache with all images can be created during the initial parsing of the mail archive file or subset of images can be created later when needed. Separate cache sub-folder is created per each archive file (assuming at least one inline image was found) in the FolderHousingMailArchives/ImageCache folder. If the inline image cache is missing for any reason, try to refresh the index file by selecting “Refresh Index File” context option on the respective file archive.

10.24 Export of all Mails to a Separate Eml files

User can export all mails to separate Eml files via mail archive context menu. Right click on the selected mail archive and select “Export All Mails as Eml” option. Eml files will be created in the

FolderHousingAllMailArchives/EmlCache/SlectedMailArchiveName folder.

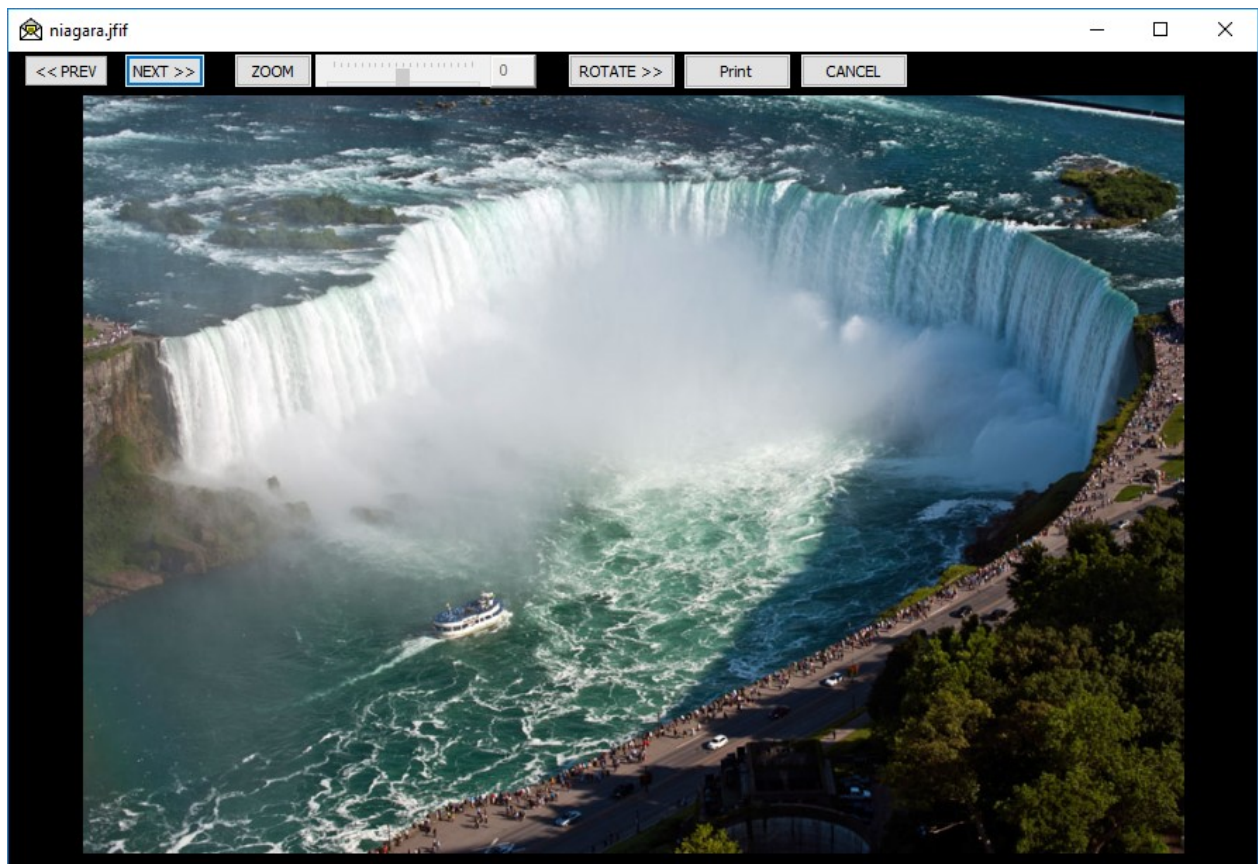
Mbox Viewer will create Eml file names as follow:

YYYYMMDD-HHMMSS-IDDDDDDD name using File Name Configuration under File → Print Config dialog.

where YYYY denotes the year, MM denotes the month, DD denotes day, HH denotes hour, MM denotes minues, SS denotes second of a mail abd IDDDDDDD denotes unique ID assign to this email.

10.25 Picture Viewer

Double left Click on any attachment to start Picture Viewer dialog, example below.



The Picture Viewer supports files with the png, jpg, pjpg, jpeg, pjpeg, jpe, gif, bmp, ico, tif, tiff, jfif, emf, wmf, dib suffixes.

The NEXT and PREV controls enable user to browse all picture/image attachments associated with the selected email. You can select specific attachment to be displayed. You can later browse through all picture attachments.

The ROTATE control allow to rotate clockwise the current/visible picture.

The ZOOM control allows to zoom in/out picture. Click on ZOOM to enable/disable zooming. Slide to right to enlarge an image, slide to left to shrink. Enlarged image can be dragged using the left and scroll buttons of the mouse. Click ZOOM to disable zooming and reset the image to original size.

The PRINT control allow to print via default application.

The Picture Viewer is enabled by default but it can be disabled via FILE → Options dialog. Setting persists in the Registry across multiple runs.

All attachments are also accessible by double clicking on the selected mail in the Summary window

or by selecting “View” → “ViewEML” menu option.

10.26 Mail Navigation

Click on a specific mail in the Summary window and use **UP**, **DOWN** keys to move to the next or previous mail respectively.

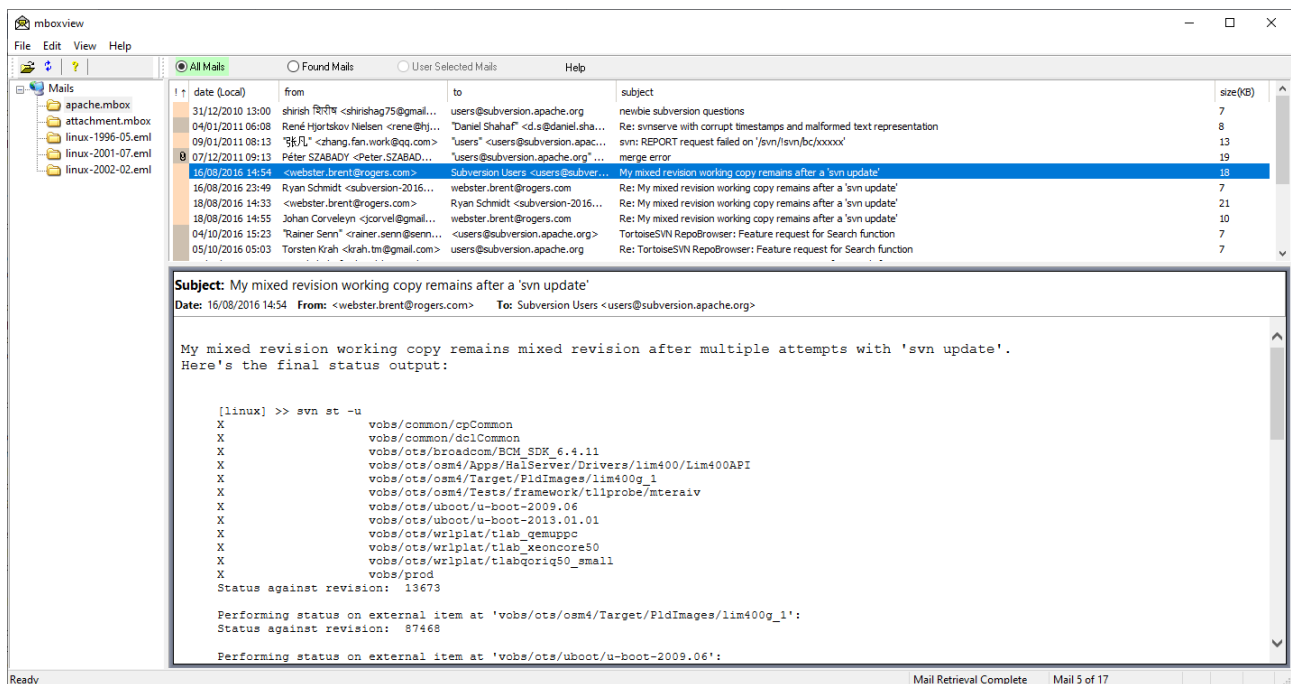
Use **HOME** key to jump to the first mail. Use **END** key to jump to the last mail.

Use the mouse wheel or vertical bar to scroll up and down mails and then select one of the mails.

10.27 Mail Sorting

The Summary window is divided into 6 columns: attachment indicator, date, from, to, subject and mail size. Each column can be sorted by clicking on the column title. Subsequent click on the same column title will reverse the sorting rule. By clicking on the first column title, emails are sorted by conversations and mark by different color as shown below.

Mail can also be sorted via the mail archive context menu or by selecting “File”->“Sort By” menu option.



10.27.1.1 Subject Sorting Rules

Subject sorting creates subject threads, that is a group of mails (or threads) with the same subject. Emails within a thread are sorted by time.

By default the subject threads are sorted alphanumerically.

Subject threads can be sorted by time by selecting “File- → Options → time ordered threads” option.

10.28 Dynamic Column Resize

Columns in the Summary windows are automatically resized when the window is resized.

However, if columns are resized manually, some of the columns may no longer be present in visible area/window.

You may need to use the scroll bar to see missing columns, otherwise maximize and then restore the window to see all columns within the Summary window again.

10.29 Mail Searching

Mbox viewer supports two search options, i.e. basic Find and Advanced Find.

The basic Find option allows users to specify single keyword for searching across header fields, mail text, attachment text and attachment names.

The advanced Find option allows user to specify keyword per each header field, mail text, attachment names and attachments.

10.29.1 Basic Find

The basic Find option allows users to specify single keyword/string for searching across header fields, mail text and attachments.

Users can configure the search scope by selecting all or subset of the from, to, subject, message text, attachment names and attachment text options. The search succeeds if the specified keyword matches any of the checked fields.

Click the “Edit” drop menu and select “Find” option to configure and start the search. Alternatively the CTRL+F will also present the search dialog.

The search dialog box allows user to specify the search string, whether to match the whole word, whether the search is case sensitive, configure the search scope, the start and end dates to consider for filtering, the Next/Previous search direction and whether to highlight all occurrences of the matched text.

Note that the Next search start with the oldest email while the Previous search starts with the latest.

The search logic simple, i.e. mail is considered a match if the search string is found in any of the checked fields in that mail.

To repeat the search in order to find the next matching mail, click the “Edit” drop menu and select “Find again” option, or select F3 key.

If “Find again” or F3 key is selected without prior “Find” or CTRL+F, the search dialog box will be presented to a user.

10.29.1.1 Find all mails that match Option

User can check “Find all mails that match” to find all matching mails. Automatic highlighting of all keyword occurrences is not supported in this case. Matched mails will be displayed under the Found Mails List and the corresponding button in the dialog bar will be highlighted. User can left click on All Mails button to switch mail list back to All Mails.

The basic Find can also be run while in the Found Mails list and while in User Selected Mails list when the list is enabled.

10.29.1.2 Find mails that don't match option

User can check “Find mails that don't match” option to find mails that don't match search criteria.

10.29.1.3 Handling of special '*' search string

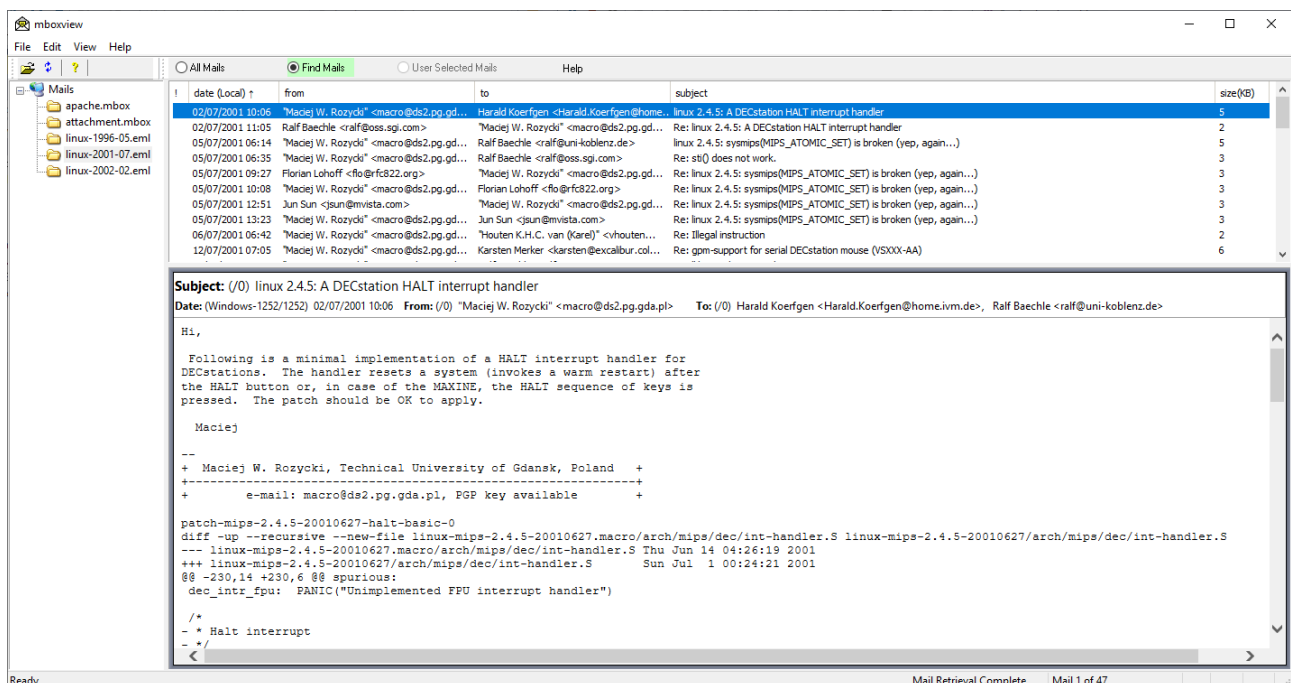
User can specify single '*' character as the search string to find subset of mails as follows:

1. Find mails that have CC header field by checking out CC check box only.
2. Find mails that have BCC header field by checking only BCC check box only.
3. Find mails that have at least one attachment by checking out Attachment Name check box only.
4. Match all mails by checking out any of others check boxes only.

NOTE that if the Find all occurrences option is not selected, user will be traversing the subset of mails/matched mails between the start and end dates.

10.29.1.4 Filter Dates

Filter Dates option enables users to search mails specified by the date range. By default the start date corresponds to the oldest mail and the end date corresponds to the latest mail. If the Filter Dates option is not set, all mails on the selected list (All Mails, Find Mails, User Selected Mails) are searched regardless of start and end dates values. If the Filter Dates option is set, user can configure the start and end dates for searching. The start and end date processing depends on the mail list selected (All Mails, Find Mails, User Selected Mails). While in All Mails list, the start and end dates are fully under the user control regardless of other user actions such as selecting other lists. However, the start and dates do not persist across application restarts or when new mbox mail archive file is selected by the user. User can set the start and end dates while in Find Mails or User Selected Mails list but the initial values are set to default values.



10.29.2 Advanced Find

The advanced Find option allows user to specify different keyword per each header field, mail text, attachment name and attachments.

Users can configure the search scope by selecting all or subset of the from, to, subject, cc, bcc, message text, attachment name and text attachments options.

Click the “Edit” drop menu and select “Find Advanced” option to configure and start the search.

The Find Advanced is also available as menu option for the selected mail. Right click on the mail and select Find Advanced option. Mbox Viewer will pre-populate From, To and Subject fields in this case.

Find Advanced

Select filter fields

Select filter fields	Find what	Match word	Match case
<input checked="" type="checkbox"/> From	shirishag75@gmail.com	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> To	users@subversion.apache.org	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Subject	newbie subversion questions	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> CC		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> BCC		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Message		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Attachment Text		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Attachment Name		<input type="checkbox"/>	<input type="checkbox"/>

☐ Set all ☐ Set all

☐ Match TO field only if single recipient on the list ☐ Highlight all occurrences in Message

Rule 1 is selected !!!

((From <-> To) and CC and BCC and Subject and (Message Text or Attachment Text) and Attachment Name

Select mail text block for search ☒ plain ☐ html ☒ html if no plain text

☐ filter dates (if not set all mails on the list are searched):
To set new dates, open calendar by selecting down arrow, or Left click on month, day or year field and type new value. Date format: month/day/year

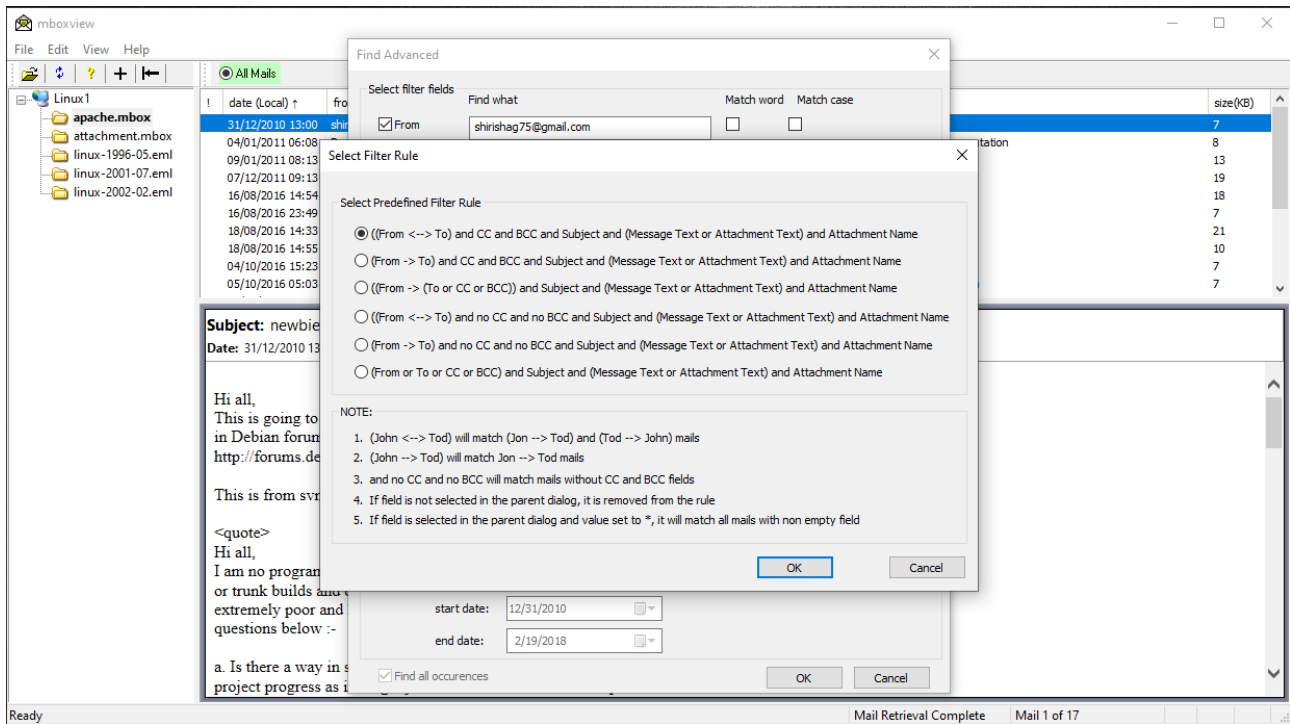
start date: 12/31/2010

end date: 02/19/2018

☒ Find all mails that match ☐ Find all mails that don't match

Only checked fields are use by matching logic and search strings are ignored if present unless field is checked.

The search logic is hard-coded for the most common cases. Select “Configure Filter Rule” button to start dialog and select one of the preconfigured filter rules.



More complex searching can be achieved by leveraging User Selected mails list. User can run multiple advanced searches and merge results into User Selected Mails list.

10.29.2.1 Find all mails that don't match option

User can check “Find all mails that don't match” option to find mails that don't match search criteria.

10.29.2.2 Handling of special '*' search string

User can specify single '*' character as the search string in any of the Filter fields to find subset of mails as follows:

1. Find all mails that have CC header field by checking out CC check box only.
2. Find all mails that have BCC header field by checking only BCC check box only.
3. Find all mails that have at least one attachment by checking out Attachment Name check box only.
4. Match all mails by checking out any of others check boxes only.

10.29.2.3 Filter Dates

Filter Dates processing is the same for Basic Find and Find Advanced search. See chapter 10.29.1.4

10.29.3 Search Reliability

MBox Viewer searching is Unicode based since version 1.0.3.40. The search string, mail header fields and mail content are encoded first as Unicode UTF8 strings. Encoding into UTF8 is done on the fly in most cases.

Comparing Unicode strings has challenges since the same character may have multiple binary representation. To overcome the problem, Unicode strings need to be normalized before they can be compared. MBox Viewer relies on non-canonical normalization form KC. String normalization is not without issues. **To help to resolve or minimize issues, please create tickets and provide as many details as possible to help to diagnose the issue.**

In most cases the received mail data contains plain text and html text blocks. Both encode the same/similar content. If the mail contains plain text blocks, only the plain text blocks will be searched. If the mail doesn't contain any plain text blocks, the html text blocks will be searched.

False positive results may sometimes happen when searching text/html content blocks. MBox Viewer will attempt to extract text from html but the extraction solution is not perfect due to simplistic but low cpu overhead approach.

10.29.4 Search for Words

Search for words is quite reliable for words composed from the following characters from ASCII and ISO-8859-1 (Also known as ISO Latin 1) character sets:

"0123456789abcdefghijklmnopqrstuvwxyz_ABCDEFGHIJKLMNOPQRSTUVWXYZÀÁÂÃÄÅÆÇÈÉÊËÌÍÎÏÐÑÒÓÔÕÖØÙÚÛÜÝÞßàáâãäåæçèéêëìíîïðñóôõöøùúûüýþ"

Any other characters from ASCII and ISO-8859-1 sets are considered as word delimiters.

Searching for words in other character sets/languages is currently not reliable for the following reasons:

1. Some languages don't have word delimiters
2. Set of all UNICODE delimiters is very large and currently not known to MBox Viewer. Future releases may enhance the search.

Option to search for words should not be set when searching emails not composed from ASCII and ISO-8859-1 character sets.

10.29.5 Search Progress Bar

Search progress bar displays the progress along the configured search string and enables user to cancel the search is so desired. The progress bar is not created unless a given search duration lasts longer than the delay time controlled by -PROGRESS_BAR_DELAY command line option or specified via GUI. Default value is 1 second.

10.29.6 Search Performance

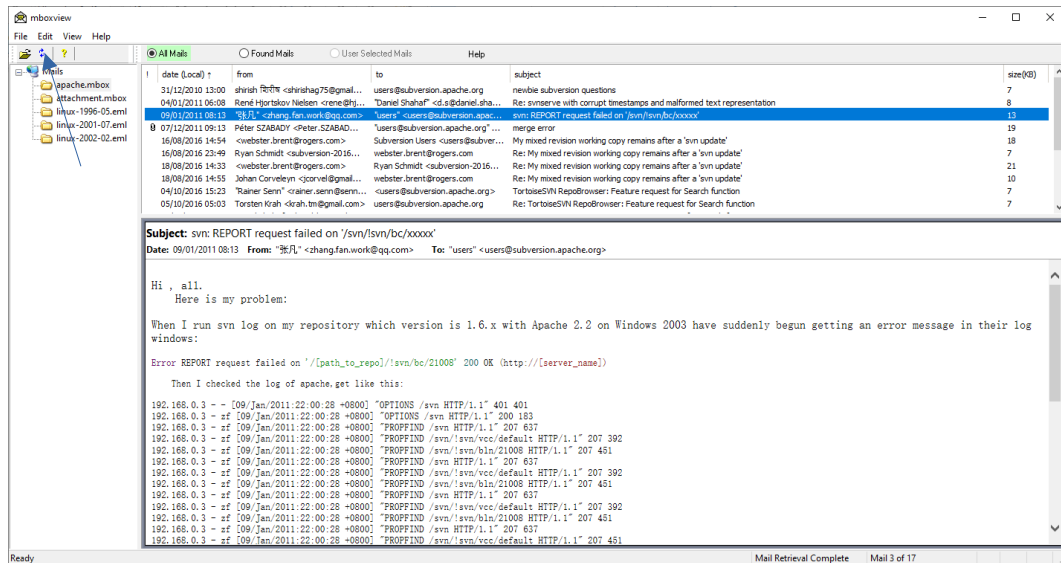
Searching of header fields performs best since all fields reside in the memory.

Searching of messages and text attachments may take some time for very large files, say larger than 10-20 Gbytes. Search requires to read the content blocks from the email file and decode the content when required. Worse case scenario is when the specified search string is not present in the mail archive. When activated, the search progress bar shows the configured search string and enables user to cancel the search is so desired.

Note that when searching of message and text attachments is configured, all mails will be sorted by date first, except when sorted by conversations, to maximize search performance.

10.30 Refreshing Archive Tree Window

If an additional mbox or eml file is placed in the already selected folder, the Archive Tree window needs to be refreshed to see the new additions. This can be done by selecting “Refresh” option under the “File” drop menu or by clicking on the button showed below. Individual Folder can be refreshed by the right click on the folder and selecting “Refresh Folder” menu option.

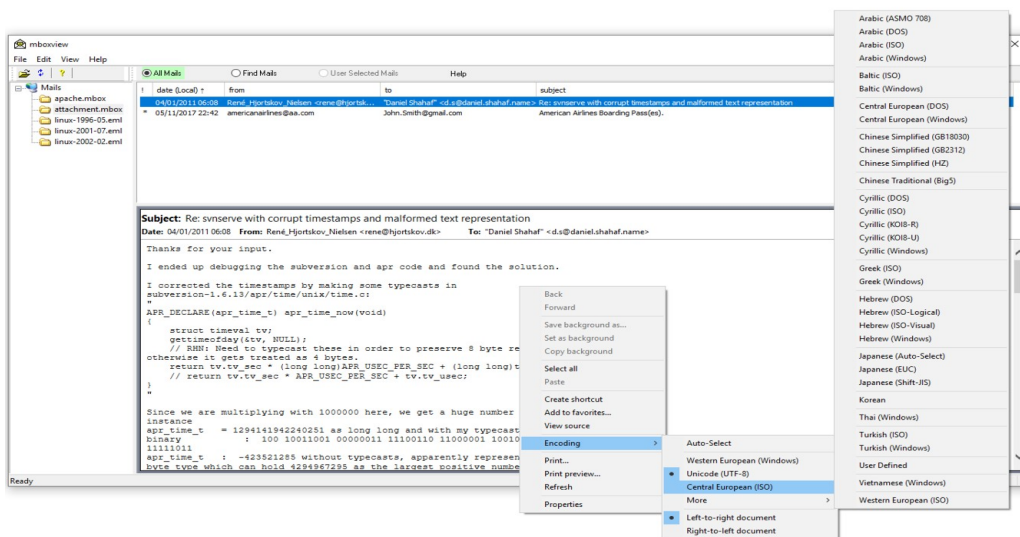


10.31 Language (Character Sets) Support

10.31.1 Message Window

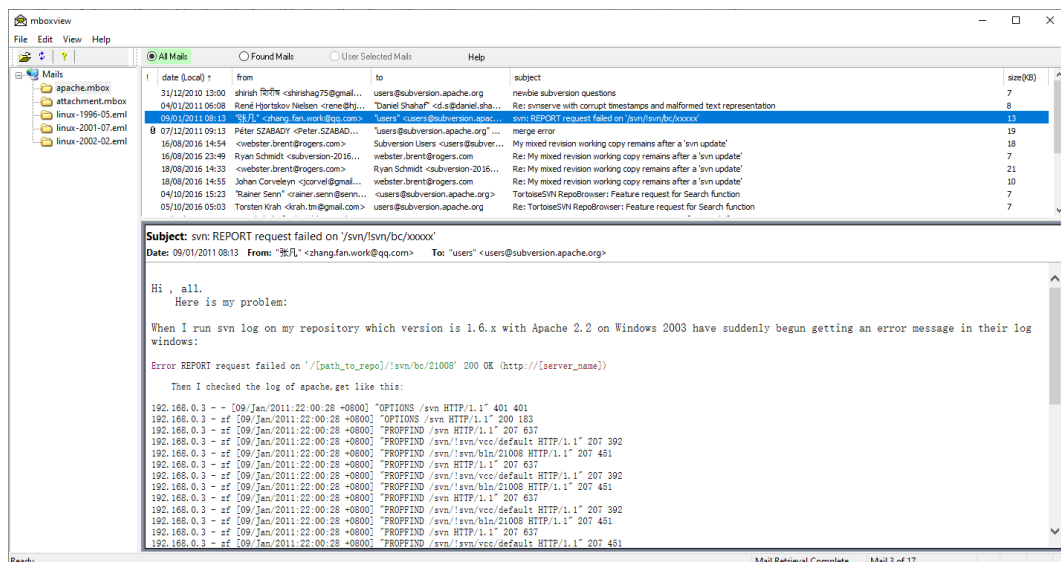
Different languages (character sets) are properly supported in the Message Window. This is thanks to the Microsoft Web Browser emulation/control class integrated into the mboxview. The mboxview generates the htm file from the mail's body and Web Browser displays the generated file in the Message window.

Display may not be correct if the character set for the mail's body is not defined in the mail. To resolve the incorrect display, you can try to apply different encoding by right clicking within the window, selecting “encoding” and “more” options to apply different language.



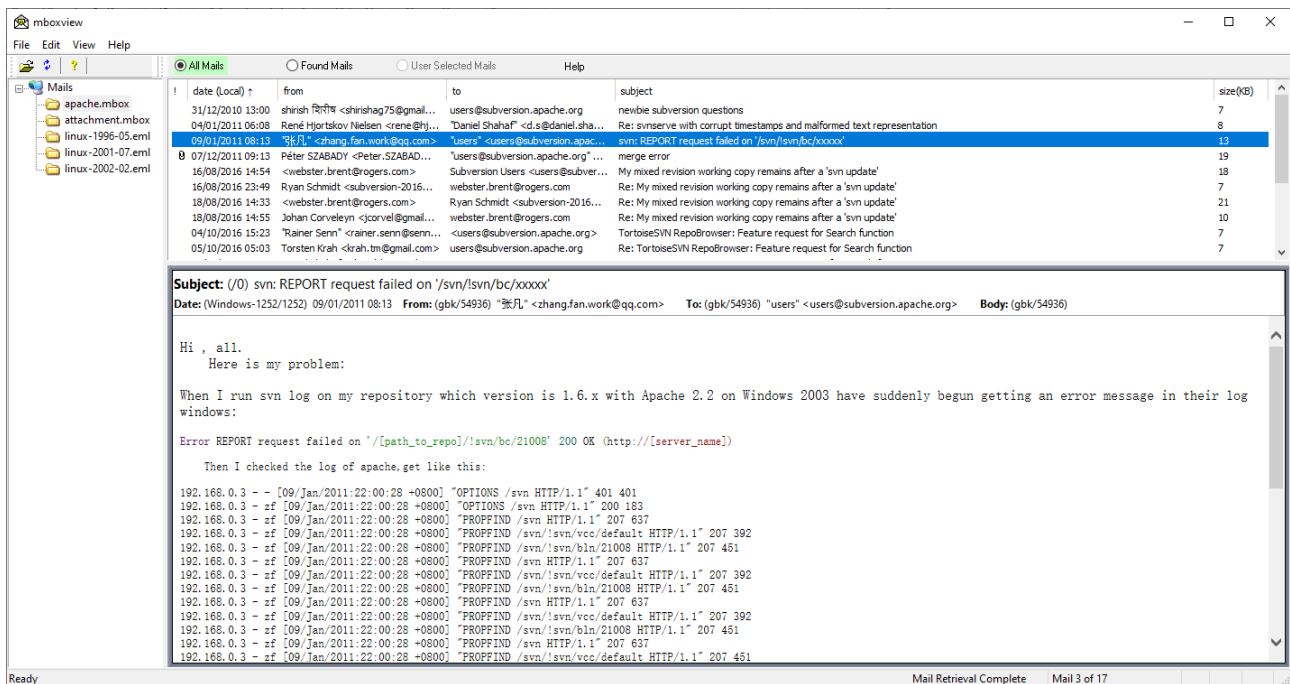
10.31.1.1 Header of Message Window

The text of the mail header fields is displayed correctly as long as the corresponding field encoding type is present in the email.



Two global options can be used to address incorrect field presentation in the Message Header in case the field encoding is not present in the email. Missing field encoding type may or may not be a problem. It should not be a problem if the default/local character set installed on your computer matches the original encoding of the header fields. It might be an issue if you are receiving emails from different countries.

As shown below, you can see all encoding/character sets applied to the header fields by enabling “Show Charsets” option. To enable, select “Options” from the “File” drop menu and enable “Show Charsets”.



If the field text presentation is not correct, you can try to configure character set (or so called code page according to Microsoft terminology) for the selected header fields and see if that helps. Per field code pages can be configured via Options dialog box. Note that the user provided encoding doesn't override encoding in the email, if present, which is denoted by the code page greater than zero. Code Page set to zero indicates missing or unknown character set.

If you change the code page value(s) in the Options Dialog box, you need to refresh the selected email by going up and down (or down and up).

All Windows supported code pages are listed in chapter 14 or can be viewed in the external Browser by selecting “View” → “View Code Page Ids”.

The character set information appears after the field title and is formatted as “(character set name/code page)”. The “*” star character is appended after the code page if the user specified code is applied). Example “(UTF-8/65001*)”.

The character set information after the “Date:” title shows the local/default character set installed on your computer.

10.31.2 Summary Window

Mail header fields are displayed correctly as long as the corresponding field encoding type is present in the email.

10.32 Mail List Auditing

Mail list auditing capability enables users to compose mail list from all mails by merging results of multiple searches and/or by merging one or more user selected mails.

To support list auditing, the Mbox Viewer maintains 3 internal mail lists:

- **All Mails** list is populated from the selected archive file under the Mail Tree.
- **Found Mails** list is populated by the search results. User can run Find Advanced dialog or set the Find All Occurrences option in the Find dialog.
- **User Selected Mails** list is composed by a user from the mails in the All Mails and Found Mails lists. Mails on All Mails and Found Mails lists are marked by the red vertical bar in the first column if they are also on User Selected Mails list.

Each internal mail list has associated button in the dialog bar located next to the tool bar. When a particular mail list is shown in the Mail Summary Window, associated button is highlighted.

Access to the User Selected Mails list is disabled upon startup and the associated Button gray out. It can be enabled by the user to perform simple list auditing if desired by selecting View->User Selected Mail List to enable/disable.

When User Selected Mails list is enabled, additional mail menu options will also be enabled such as Copy Selected Mails to User Selected Mails.

Content of the User Selected Mails list is controlled by the user. User can merge search results with the content of the User Selected List.

User can run the search multiples time and merge results multiple times with the User Selected List. Search results can be pruned before merging.

In addition, user has an option to select/highlight one or more mails in the Summary Mail Window and copy to the User Selected Mails list.

Standard Windows method is used to select and highlight multiple mails, i.e. Shift+Left Click and CTRL+Left Click and CTRL+A.

Merging/copying process will not create duplicate mails in the User Selected List.

User can select and highlight one or more mails in the Summary Mail Window and remove from the active list. Mails can't be removed from the All Mails list.

All Mails list content persists until new mail archive is selected.

Found Mails list content persists until new search or when new mail archive is selected.

User Selected Mails list content persists until cleared by the user or new mail archive is selected.

10.32.1 Mail List Archiving

Found Mails list and User Selected Mails list content can be saved to new mbox archive files or just to the .mboxlist mail list files.

Mail Archive and Mail List files will be created in the FolderHousingMailArchives/ArchiveCache/MailArchiveName folder.

Archive file created from the Found Mails list will be created by appending _FIND suffix to the base name of the main archive file name.

The _USER suffix will be appended when creating archive file from the User Selected Mails list.

For example, if the main mbox archive file from Gmail is called "All mail Including Spam and Trash.11.09.2018.mbox", then created archive file will be named "All mail Including Spam and Trash.11.09.2018_USER.mbox."

When creation of the archive is completed, user is presented with the dialog to open the folder with the created archive file or to open the archive file within the Mbox Viewer.

Separately, user can save mails in User Select Mails list to .mboxlist file, for example "All mail Including Spam and Trash.11.09.2018_USER.mbox.mboxlist". The .mboxlist files are much smaller than the mail archive files. To protect against catastrophic failure of the mbox viewer while saving mails to .mboxlist file, the mbox viewer maintains "All mail Including Spam and Trash.11.09.2018_USER.mbox.mboxlist.bak1" and "All mail Including Spam and Trash.11.09.2018_USER.mbox.mboxlist.bak2" files. To recover, user must copy one of these two files to "All mail Including Spam and Trash.11.09.2018_USER.mbox.mboxlist" file.

User can reload the last mail list file into the User Select Mails. Reload can be requested at any time including after restart of the mbox viewer.

After mbox viewer is restarted or when User Selected Mails List is empty, User Selected Mails list can be restored when All Mails list is active.

When User Selected Mails list is active and not empty, it can be reloaded by a user from the last .mboxlist file.

WARNING: The .mboxlist file will no longer be valid if the master mail archive is changed.

10.32.2 Merging Multiple Mail Archives

10.32.2.1 Merging files using command line options

Multiple Mbox and Eml files (full path) can be listed in a file and concatenated into a single archive file using two command line options.

-MBOX_MERGE_LIST_FILE=listFile Name and **-MBOX_MERGE_TO_FILE**=mergedFile Name command line options to merge content of mbox files listed in the listFile Name. Wildcard file names to merge are supported. The merged mbox file is automatically open in the Mbox Viewer.

10.32.2.2 Merging files from GUI

Multiple archives can be concatenated into a single archive using "Right click on folder name -> Merge Mail Archive Files" option. This is useful if you need to analyze multiple mail views, provided as separate archive files, derived from the same archive file.

After merging is completed, select "Right click on folder name -> Refresh Folder" to request the Mbox Viewer to discover new archive.

In order to remove duplicate mails from the concatenated file:

1. Select the created archive.
2. Select "View -> User Selected Mails" to enable User Select Mails list.
3. Right click on any mail to select "Copy All into User Selected Mails" option to copy all

- mails into User Selected Mails list.
4. Click on the "User Selected Mails" button to select User Select Mails list.
 5. Right click on any mail to select "Remove Duplicate Mails" option to remove duplicate mails from User Select Mails list.
 6. Mails are considered duplicate if the Date, From, To header fields and unique message ID generated by the mail provider match.
 7. Select "Save as Mail Archive file" option to save mails on the User Selected Mails list.
 8. Select " Right click on folder name -> Refresh" to discover new no duplicate mails archive file by the Mbox Viewer.
 9. You may want to rename the default name assigned to the archive file before the above step.

10.33 Mail Printing Overview

Mbox Viewer supports printing of all, single or multiple mails to CSV, Text, HTML, PDF files and to PDF printer. Mails can also be printed to PDF from any Web Browser by opening mails printed to HTML files.

By default all, single or multiple mails are printed to single CSV, Text, HTML and PDF files without any additional configuration or manual steps. However there is a limit how many mails can effectively be printed to a single file. Option is provided to print mails to separate files to scale to larger number of mails. See 10.33.7 section.

The next sections below will cover these limitations and alternate solutions.

10.33.1 Print Configuration Dialog

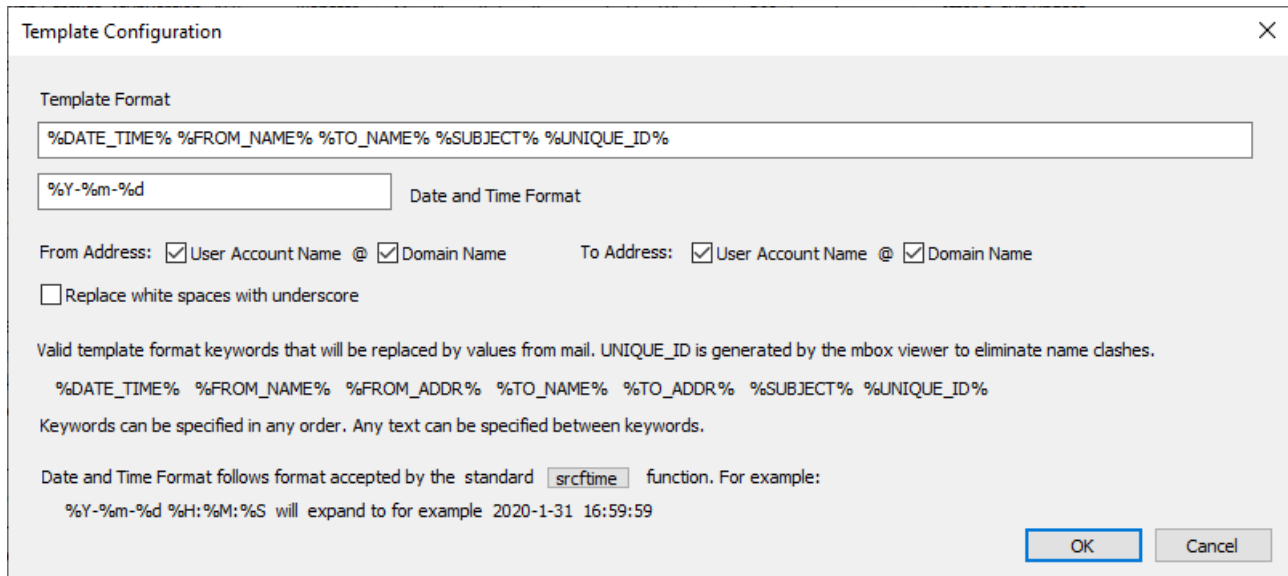
Many aspects of printing can be controlled via "File → Print Config" option. The dialog is shown below and the usage is covered in the subsequent sections.

The image shows a "Print Configuration" dialog box with the following sections and settings:

- File Name Configuration**
 - Compose File Name Template From: ☒ Date ☒ Time ☒ From ☒ To ☒ Subject ☒ Unique Id
 - Max file path length supported by Windows is 260 characters
 - Wanted Max File Name Length: 260
 - Adjusted Max File Name Length: 168
 - ☐ CUSTOM TEMPLATE
- Print to .. Printer Menu Option Setup**
 - ☐ DO NOT PROMPT ☒ PRINT PROMPT ☐ PRINT PREVIEW
 -
- Print to .. PDF Menu Option Setup**
 - ☐ Chrome Browser ☒ MSEdge Browser ☐ User Defined Script
 - Path to Chrome/MSEdge Browser executable: C:\Program Files (x86)\Microsoft\Edge\Application\msedge.exe
 - Path To User Defined Script: F:\Documents\GIT 1.0.3.27\mboxviewer\Win32\Debug\scripts\H
- Print selected mails to separate files**
 - ☐ PDF ☐ HTML ☐ Text
- PDF document options**
 - ☒ Mail Hdr Background Color ☒ Mail Body Background Color
 - ☒ Page Break After Each Mail ☐ Header and Footer
 - ☐ Page Break After Each Conversation Thread
- HTML/PDF Mail Header Configuration** (button)
-

10.33.1.1 Custom Name Template

User can create custom name template by checking “CUSTOM TEMPLATE” and then selecting “Compose Custom Template”. User will be presented with the below template configuration dialog.



The screenshot shows a 'Template Configuration' dialog box with a close button (X) in the top right corner. The dialog is divided into several sections. The 'Template Format' section contains a text input field with the value '%DATE_TIME% %FROM_NAME% %TO_NAME% %SUBJECT% %UNIQUE_ID%'. Below this is a 'Date and Time Format' section with a text input field containing '%Y-%m-%d'. The 'From Address' and 'To Address' sections each have two checked checkboxes: 'User Account Name' and 'Domain Name'. There is an unchecked checkbox labeled 'Replace white spaces with underscore'. A paragraph of text explains that valid template format keywords will be replaced by values from mail, and that 'UNIQUE_ID' is generated by the mbox viewer to eliminate name clashes. Below this, a list of keywords is shown: '%DATE_TIME%', '%FROM_NAME%', '%FROM_ADDR%', '%TO_NAME%', '%TO_ADDR%', '%SUBJECT%', and '%UNIQUE_ID%'. A note states that keywords can be specified in any order and that any text can be specified between keywords. The 'Date and Time Format' section explains that it follows the format accepted by the 'strftime' function, providing an example: '%Y-%m-%d %H:%M:%S' will expand to '2020-1-31 16:59:59'. At the bottom right, there are 'OK' and 'Cancel' buttons.

10.33.2 Mail Printing to CSV Spreadsheet file

By default, Mbox Viewer supports printing of all mails or selected group of mails to a single CSV file. All mails can be printed to single CSV file but a particular Spreadsheet tool may limit the maximum supported size of the spreadsheet file.

User can select and print groups/subset of mails to separate CVS files as a work around. There is no option to automatically split all mails into configurable number of mail groups for printing to separate CSV files.

10.33.3 Mail Printing to TEXT file

By default Mbox Viewer supports printing of all, single or selected group of mails to single Text file. All mails can be printed to single TEXT file but a particular Text viewer tool may limit the maximum supported size of the text file.

User can select and print groups/subset of mails to separate Text files as a work around. There is no option to automatically split all mails into configurable number of mail groups for printing to separate Text files

10.33.4 Mail Printing to HTML file

By default Mbox Viewer supports printing of all mails, single or selected group of mails to single HTML file. Mails can also be printed to a separate per mail HTML file for further processing as described in “Mail Printing to PDF” 10.33.6 section and “Mail Printing to PDF files by Power

Users” 10.33.7 section.

All archive mails can be printed to single HTML file but HTML viewer tools/Web Browsers may not be able to process large HTML files, become very slow or completely overloaded.

User can select and print groups/subset of mails to separate HTML files as a work around. There is no option to automatically split all mails into configurable number of mail groups for printing to separate HTML files.

There is no hard rule how many mails can be printed to a single HTML file and viewed by a Web Browser. It depends on the size and content (such as heavy graphics) of mails. It should be doable to print up to a couple of thousands small to medium size text mails to a single HTML file for further processing.

10.33.5 Mail Printing to PDF printer

Mbox Viewer supports printing of all, single or selected group of mails to PDF printer.

Printing to PDF printer relies on Microsoft HTML Document object to print its content. First, Mbox Viewer will print mails to a single HTML file, then it will load this file into HTML Document object and request the document object to print itself.

The limitations as far as the maximum number of mails that can be printed are described in the "Printing Mails to HTML file" section.

The "File -> Print Config -> Page Setup" dialog option allows users to control the page title, header, footer and background color.

By default user is prompted to select PDF printer for printing mails. If the PDF printer is configured as the default printer, user can set "File -> Print Config -> Do Not Prompt" dialog option to skip the printer prompt step.

10.33.6 Mail Printing to PDF file

Mbox Viewer supports multiple ways to print all, single or multiple mails to PDF file. All methods convert HTML files, created first from mails by the Mbox Viewer, to PDF format.

By default all, single or selected mails are printed to a single HTML file and then converted to PDF format. The default method limits the number of mails that can be effectively printed to single HTML file as noted in previous sections. More scalable method for is described in “Mail Printing to PDF files by Power Users” 10.33.7 section.

Mbox Viewer supports an option to print mails directly to PDF file without any user interaction. Direct printing to PDF file invokes external application to convert HTML files to PDF. Standard Google Chrome and/or Microsoft Edge browser in so called headless mode are used to perform conversion. MS Edge and Chrome allows users to configure printing of pages with or without standard header and footer.

10.33.6.1 Use of free wkhtmltopdf application

NOTE: Support for wkhtmltopdf will likely be removed in the future releases. The wkhtmltopdf

project is no longer actively developed. It was archived by the main developer and it is in the read-only mode. Open the provided link to view history and status of this project [wkhtmltopdf](#) .

An option is provided to leverage free wkhtmltopdf application to covert HTML to PDF and to control the page title, header and footer and the background color. Note however that free wkhtmltopdf application was not fully evaluated and should only be used in very rare cases. Support for wkhtmltopdf seems to be lagging for number of years in comparison to Edge and Chrome.

User can set "File -> Print Config -> Path To User Defined Script" to invoke HTML2PDF-single-wkhtmltopdf.cmd script included in the release package. HTML2PDF-single-wkhtmltopdf.cmd script creates PDF files with the right footer "Page Number of Total Pages" and no page Title and Header. The script can be customized by users if desired.

The wkhtmltopdf can be downloaded from [wkhtmltopdf.org downloads](#).

The wkhtmltopdf command line options are documented in [wkhtmltopdf.org usage](#).

10.33.6.2 Print Options

When printing multiple mails to a single PDF file, user can

1. Set "File -> Print Config -> Page Break After Each Mail" option to start each mail at new page, or
2. Set "File -> Print Config -> Page Break After Each Conversation Thread" to start conversation or subject thread at new page.

User can unset "File -> Print Config -> Mail Hdr Background Color" option to remove mail header background color and save on the ink when printing.

User can set/unset "File -> Print Config -> Header and Footer" option to control printing of page standard header and footer via MS Edge and Chrome browser.

10.33.6.3 Printing directly from Firefox, Chrome and Edge browsers

HTML files created by MBox Viewer can be open within Firefox, Chrome, MS Edge, etc. browser and printed to PDF file and take advantage of additional printing options.

Note that in order for links to attachments be clickable the “Save to PDF” option must be used when printing directly from Edge and Chrome browsers.

Note that links to attachments are clickable when PDF document is open in Edge or Chrome browser but they are not clickable in Firefox.

10.33.6.4 Impact on Font Size when Printing of Multiple Mails to a Single PDF

MBox Viewer's solution to Print multiple mails to single PDF is non-standard and can affect font sizes in all mails. MBox Viewer concatenates content of all mails and headers in HTML format and ask Edge or Chrome Web Browser to convert HTML document into PDF.

Some of mails may have complex style definitions and they can leak and "pollute" environment of

other mails. Frequently, font sizes become smaller and may need to be zoomed in by the PDF viewer. There is no similar solution for zooming when printing generated PDF documents to paper.

Note that this problem was basically resolved over time and no longer occurs in practice.

The following approach is suggested when printing multiple mails into a single PDF.

1. Print mails using default mode. Right-click on selected mails and select "Print Selected Mails to --> PDF --> Default". Evaluate generated PDF document and if not acceptable, follow step 2.
2. Print mails using Merge mode. Right-click on selected mails and select "Print Selected Mails to --> PDF --> Merge" option. By default, this will print all selected mails into separate PDF files first and then merge them into a single target PDF file. Conversion of mails into PDF format by Edge or Chrome Browsers is typically high quality and the merging process typically preserves original quality. Each mail starts at the beginning of a page in the merged PDF. This may be considered less than optimal for small mails. In order to run Merge mode, user must install free java PDFBox command line tool and Java VM. Java VM is typically installed on Windows but PDFBox application must be downloaded from the following link.

<https://pdfbox.apache.org/download.html>

Please download the latest pdfbox-app-3.*.jar file and install in the same directory as mboxview.exe. Also, check whether java.exe is installed on your system as follow.

Start Command Prompt and type “**where java**”. If java.exe is not listed in the output, you need to install java for Windows. You may also have to update PATH system environmental variable and restart Explorer and MBox Viewer.

Note that in approach 1 and 2 you can configure MBox Viewer to print page break after each mail or after each conversation thread of mails. Select "File- → Print Config-->PDF document options->Page Break After Each Mail/Page Break After Each Conversation Thread".

10.33.6.5 Performance

Maximum number of mails that can be merged by 1 and 2 options depends on the complexity and size of mails to be merged.

Merging may take minutes when merging relatively small plain text mails or it may take hours when merging large number of business mails with hyperlinks, graphics, tables, etc.

For example, running option 2 (that is merge option), it took 3 hours to print 3926 mails, mix of simple and business mails, into separate PDFs and another 40 minutes to merge them by PDFBox. Task Manager was showing that PDFBox process memory utilization was close to 8gigabytes.

Option 1 never finished with the same set of mails. The test was canceled when it didn't finish within 5 hours.

10.33.7 Mail Printing to PDF files by Power Users

Some users may need to print very large number of mails to a single PDF file. This is supported by Mbox Viewer but one or multiple manual steps are required. User must first print group of mails to

separate HTML files and eventually to PDF files and then merge them into a single PDF file by running provided script.

The count of mails to merge into single HTML file is controlled by the following option:

“File-->General options Config-->Number of HTML mails to merge to increase scalability”

Merging multiple mails into single HTML file reduced time to convert all mails to PDF and also helps to reduce size of the final PDF file. The conversion time of HTML files to PDF files can be reduced further by utilizing multiple Chrome or Edge instances.

Follow the following steps to optimize merging of large number of files into single PDF:

1. Set “Number of HTML mails to merge to increase scalability” option to 100 for example. This number depends on the size and complexity of mails. This will reduce the total number of HTML files to convert to PDF by 100 times.
2. Install pdfbox-app-3.*.jar file and Java VM as described in section 10.33.6.4
3. Open the target folder for PDF files as follow: a) Select any two mails, b) select “Print Selected Mails To --> PDF --> Merge” option, c) wait until Print is done and select Open File Location. Keep the folder open for the future use.
4. Select all or subset of mails to convert to single PDF file.
5. Right click on one of the selected files and select “Print Selected Mails To --> PDF --> Merge” option.
6. Wait until MBox Viewer finishes creating HTML files and begins to convert HTML files to PDF.
7. Select Cancel button and wait until Cancel is completed.
8. Copy the following scripts to the target folder for PDF files:
 - scripts/run-html2pdf-list.cmd
 - scripts/html2pdf-list.cmd
 - scripts/PDFMerge-pdfbox.cmd
9. Update run-html2pdf-list.cmd script to set NumberOfBrowsers and RootUserDataDir. It is recommended that NumberOfBrowsers is not set higher than number of physical cores on user’s computer. Create sub-folders 0,1,2,etc, one per browser instance, under RootUserDataDir folder.
10. Left double click on run-html2pdf-list.cmd to start HTML to PDF conversion. This will create number of windows, some will be minimized. Once conversion of HTML files to PDF is complete, Close all windows created by run-html2pdf-list.cmd script.
11. Once conversion of HTML files to PDF is complete, left double click on PDFMerge-pdfbox.cmd to merge all PDF files into the target PDF created under PDF_MERGE sub-folder.

The entire process may take many hours depending on the complexity of emails and the number of Browsers configured for conversion.

If more than one merged PDF file is created in the PDF_MERGE sub-folder, PDFMerge-pdfbox.cmd script and pdfbox-app-3.*.jar file need to be copied to that sub-folder and the script executed again until PDFMerge-pdfbox.cmd script creates single PDF file only.

Free PDFBox java tool can be downloaded from pdfbox.apache.org.

PDFBox command line tools usage example can be found in [pdfbox.apache.org commandline tools](http://pdfbox.apache.org/commandline-tools).

Java 8 can must be installed and can be downloaded from jdk8-downloads.

10.34 Viewing Large PDF files

Chrome, Edge and Firefox browsers and even Adobe Acrobat viewer have problems handling large Gigabytes PDF files. The Okular viewer seems to be the best and also free viewer for viewing very large PDF files <https://okular.kde.org/> .

10.35 Mail Sharing with other People

The Mail Sharing (or Mail Export) feature enables users to share one or more of the selected mails in HTML and PDF format with other people. The MBox Viewer will create the following files under ExportCache folder when exporting one or more selected mails. Only files related to selected mails are exported.

1. The “Export selected single mail to a file” option. When single mail is exported the following files are created:

- a. Single SelectedMailName.htm file under ExportCache folder, where SelectedMailName is a unique name constructed for the selected mail. User can define custom template for file name via “File->Print Config->Custom Template->Compose Custom Template” dialog.
- b. “Attachments” folder for all inline and non inline attachments.

2. The “Export selected multiple mails to separate files” option. When multiple mails are exported to separate files the following files and folders are created:

- a. The index.html file that shows all mails as the table with the following columns: attachment indicator, Date, Subject, From and To.
- b. “Mails” folder for all exported mails in Html format. MBox Viewer creates a separate file for each exported mail as SelectedMailName.htm file, where SelectedMailName is a unique name constructed for the selected mail. User can define custom template for file name via “File->Print Config->Custom Template->Compose Custom Template” dialog.
- c. “Attachments” folder for all inline non inline attachments

3. The “Export selected multiple mails to a single file” option. If multiple mails are exported to single file the following files are created:

- a. SelectedMailName.htm file under ExportCache folder, where SelectedMailName is a unique name constructed for the selected mails being concatenated.
- b. “Attachments” folder for all inline and non inline attachments

In all cases, the exportMails2Pdf.cmd file will also be created in the AttachmentCache folder to create PDF file from mails when needed by a user. By default MBox Viewer doesn't export mails in PDF format since links to attachments are created as absolute links and work only on local computer. Instead, MBox Viewer creates command script to enable users to create PDF files locally. Edge or Chrome browser must be installed on the user computer.

MBox Viewer allows single export per mbox mail file at a time. If exported files exist already, user is asked to copy ExportCache folder to another location, or to agree to override the existing export folder, that is to delete existing files and create new files.

User can configure how to open linked documents via “Export Selected Mails-> Config” option, i.e. links to attachments or links to mails in the index.html file. The same configuration options are available via “Print Config->HTML/PDF Mail Header Configuration->How to open attachment link” options. The options are persistent.

10.36 Support for Outlook .msg Mail Files

Starting with v1.0.3.54, MBox Viewer offers experimental support for Outlook .msg files. The .msg files are converted to Mime .eml files first in order to leverage standard MBox Viewer features.

User can view individual .msg file or all .msg files can be converted to .eml files first and merged into a single .mbox file.

Processing of .msg files is quite complicated and requires significant effort. This initial release doesn't support:

1. processing winmail.dat attachments
2. message body encoded as RTF Text

User feedback will help to decide whether additional development effort is justified in the future.

10.36.1 Viewing single .msg file

Select “File-->Select Folder..” option to select folder with .msg files and install the folder under the Mail Tree pane. Left click to select any msg file. New instance of MBox Viewer will be created to process and to show the content of the selected file. When done viewing, user can terminate the created MBox Viewer instance by selecting standard Windows Close button or by selecting Escape key on the keyboard.

10.36.2 Merging multiple Outlook .msg mail files

MBox Viewer provides an option to merge multiple .msg files into single Mime .mbox files. The merged file can later be processed by MBox Viewer as yet another .mbox mail file.

User must install the folder under the Mail Tree pane by selecting Select “File-->Select Folder..” option to select folder with .msg files. Next, user must select the installed folder by left-click. And finally, user needs to right-click on the selected folder and select “Merge Outlook Msg Mail Files” option. Once merging is complete, user will be presented with the option to open the created file or to open folder containing the created file.

10.37 Export and Print Directory Structure

MBox Viewer creates data directory and uses as target directory for files and sub-folders created by MboxViewer such as “Print...” export all mails as eml files, etc

The DIRECTORY is constructed as follow based on the selected data folder:

DIRECTORY= UserSelectedDataFolder\UMBoxViewer\MappedMboxFilePath

Mapping example. Assuming

MboxFilePath=F:\Account\Inbox.mbox, then it will be mapped to

MappedMboxFilePath=F\ Account\Inbox-mbox

and DIRECTORY to

DIRECTORY=UserSelectedDataFolder\UMBoxViewer\F\ Account\Inbox-mbox

The ‘.’ character will be removed and “.mbox” extension, if present, will be mapped to “-mbox”

DIRECTORY - target directory for files and sub-directories created by MBox Viewer

DIRECTORY\MailArchiveFile1.mbox

DIRECTORY\MailArchiveFile1.mbox.mboxview

DIRECTORY\MailArchiveFile2.mbox

DIRECTORY\MailArchiveFile2.mbox.mboxview

DIRECTORY\ImageCache

DIRECTORY\ImageCache\MailArchiveFile1- target directory for image files, such as png, jpg, etc, embedded into mails

DIRECTORY\ImageCache\MailArchiveFile2

DIRECTORY\ArchiveCache

DIRECTORY\ArchiveCache\MailArchiveFile1- target directory for saving Find Mails and User Selected Mails as .mbox archive files and .mboxlist mail list files

DIRECTORY\ArchiveCache\MailArchiveFile2

DIRECTORY\PrintCache

DIRECTORY\PrintCache\MailArchiveFile1 - target directory for printing to single CSV, TEXT, HTML and PDF files

DIRECTORY\PrintCache\MailArchiveFile1\PDF_GROUP - target directory for printing to separate PDF files

DIRECTORY\PrintCache\MailArchiveFile1\HTML_GROUP - target directory for printing to separate HTML files

DIRECTORY\PrintCache\MailArchiveFile2

DIRECTORY\AttachmentCache\MailArchiveFile1 - target directory for all attachment files

DIRECTORY\AttachmentCache\MailArchiveFile2

DIRECTORY\EmlCache\MailArchiveFile1 - target directory for all Eml files

DIRECTORY\EmlCache\MailArchiveFile2

DIRECTORY\LabelCache - target directory for all Label files

DIRECTORY\MergeCache - target directory for intermediate file created when “File- → Select root folder for merging” is selected.

DIRECTORY\ExportCache - target directory for exporting/sharing mails

DIRECTORY\ExportCache\Mails - target directory for mails encoded as HTML files.

DIRECTORY\ExportCache\Attachments - target directory for inline and non-inline attachments related to exported mails.

Mbox Viewer also creates UserSelectedDataFolder/MergeFolder directory to store created merged files when user decides to open created merge file (via presented Open File option) after merging is completed.

Mbox Viewer also creates and manages temporary

C:\Users\UserName\AppData\Local\Temp\UMBoxViewer and

C:\Users\UserName\AppData\Local\Temp\UMBoxViewerPreview

directories to store temporary files (attachments, eml and htm) created when a single mail is selected by the user.

Mbox Viewer created help files such as MailListsInfo.htm and MboxviewerHelp.htm are stored in the temporary directory C:\Users\UserName\AppData\Local\Temp\UMBoxViewer\MboxHelp directory.

11 Support for Read Only Media

MBox Viewer supports mbox mail archive files saved on Read Only media such as CDs.

MBox Viewer will create index files and other internal directories under the writable data directory as described sections 10.37 and 10.6 .

12 Forward Mails directly from MBox Viewer

12.1 Overview

Users can forward single or selected group of emails directly from MBox Viewer. MBox Viewer connects to one of the preconfigured SMTP (Simple Mail Transport Protocol) Servers to forward emails. Emails can be forwarded via Gmail, Yahoo, Outlook Live mail service or user configured Mail Service.

MBox Viewer relies on a separate standalone process, ForwardEmlFile.exe, to connect to SMTP Server and to send emails using the TLS encrypted communication. MBox Viewer links proven MailKit software library to communicate with the SMTP server.

Note that ForwardEmlFile.exe can't access user mail account data since SMTP Server can send data only.

Be aware that all Mail Services impose limits on the rate, size of sending mails and other factors, see chapter 12.3 . For regular users, Gmail seems to offer better more predictable service than Yahoo or Outlook. However, Yahoo supports mails up to **39MB** in size vs **35MB** by Outlook and vs **25MB** by Gmail.

Note that even so Yahoo can send large mails of 39MB, Outlook may ignore mails larger than 35MB. When forwarding important emails, it is good idea to ask recipient for confirmation.

12.2 User Accounts and Passwords

Mail Service providers usually require third-party applications to follow special authentication requirements in order to gain access to their services, i.e. to SMTP Server in this case.

If for whatever reasons you would rather not make changes to your main mail account, you can always create additional mail account on another mail service just to be able forward emails directly from MBox Viewer.

NOTE(2024): *During testing in 2024 it was discovered that forwarding mails via Outlook is not working for now. Microsoft dropped basic user authentication method (user name and password) and introduced more complex user authentication for SMTP service.*

NOTE(2024): *During testing in 2024 it was discovered that forwarding mails via Yahoo is quite slow. Forwarding mails via Gmail is fast, much faster than forwarding mails over Yahoo.*

12.2.1 Yahoo Mail Service

In order for third-party SMTP client applications such as ForwardEmlFile.exe to access Yahoo SMTP Server, user must login to Yahoo mail account first and generate one time App Password that can later be used to authenticate ForwardEmlFile application to SMTP Server.

App Password is long string of 16 random characters. Using App Password is very safe since it practically can't be guessed by hackers using brute force.

Select the below link and click on + sign next to "Generate an App Password" and follow all steps to generate globally unique password for application named **ForwardEmlFile**. You will need App Password and Yahoo mail user name to communicate with Yahoo SMTP Server.

<https://my.help.yahoo.com/kb/account/generate-third-party-passwords-sln15241.html>

12.2.2 Gmail Mail Service

Third-party SMTP client application such as **ForwardEmlFile.exe** can connect to Gmail SMTP Server and be authenticated using either 1) Gmail user name and Gmail user password, or 2) Gmail user name and Gmail App Password.

Note (Nov 2022). *Authentication by user name and password is no longer supported by Gmail.*

12.2.2.1 Gmail user didn't enable 2-step verification to sign up into Gmail

In order to use Gmail user name and Gmail user password, user must login to the Gmail account and enable "Less secure app access" option, see the link:

<https://myaccount.google.com/lesssecureapps?pli=1>

If you are concerned about this change, you can disable "Less secure app access" option after you are done forwarding emails.

NOTE (2024): *"Less secure app access" option is no longer supported by Gmail.*

12.2.2.2 Gmail user did enable 2-step verification to sign up into Gmail

User must login to Google account and generate App Password for Gmail Account. App Password is long string of 16 random characters. Using App Password is very safe since it practically can't be guessed by hackers using brute force.

Use following link for the general information:

[Sign in with app passwords](#)

or search Web for "Sign in with app passwords"

Use the link below to generate App Password:

[Create and manage your app passwords](#)

Login and enter "mboxview" as the application name to generate application password.

Google Account

← App passwords

App passwords help you sign into your Google Account on older apps and services that don't support modern security standards.

App passwords are less secure than using up-to-date apps and services that use modern security standards. Before you create an app password, you should check to see if your app needs this in order to sign in.

[Learn more](#)

Your app passwords

mboxview	Created on 1:48 PM	🗑️
----------	--------------------	----

To create a new app specific password, type a name for it below...

Create

12.2.3 Outlook Live Mail Service

NOTE: *Until further notice, forwarding via Outlook is not supported.*

Testing was done using Outlook Live free mail account. Microsoft also offers payable Premium Outlook mail service under Office 365 and Microsoft 365 plans. These plans offer much higher sending limits but no evaluation was performed.

If a user did enable 2-step verification, user needs to generate App Password to be properly

authenticated, see chapter 12.2.3.2 . App Password is long string of 16 random characters. Using App Password is very safe since it practically can't be guessed by hackers using brute force.

If a user didn't enable 2-step verification, there is no requirement to change any security setting for Outlook Live account to be able to send mails via Outlook SMTP Server.

Creating User name and Password to gain access to Outlook SMTP is not exactly clear and can be confusing to set up.

12.2.3.1 Create Outlook Account, User Name and Password

I suggest the following steps to create valid user names and password. For more information, examine the following link.

[Everything you need to know about Microsoft accounts | Windows Community](#)

In my case I already had Microsoft and Outlook accounts but had to perform additional configuration.

12.2.3.1.1 You don't have Microsoft Account (know as MSA) and you don't have Outlook Live account

Use the following link to create Microsoft account page:

<https://account.microsoft.com/account>

Select "Sign in", then select "Create one!", then select "Get a new email address" and create your new MyName@outlook.com email address.

The below link has more details.

<https://support.microsoft.com/en-us/account-billing/how-to-create-a-new-microsoft-account-a84675c3-3e9e-17cf-2911-3d56b15c0aaf>

Use your new Outlook User name and Password to open SMTP Server Configuration dialog and configure user name and password. Attempt to forward one of the mails and check if all works.

12.2.3.1.2 You already have both Microsoft Account and Outlook Live Account

This is the case I faced. Forwarding of emails was not working properly until I created email alias and make this alias primary as described in following link:

<https://support.microsoft.com/en-us/office/add-or-remove-an-email-alias-in-outlook-com-459b1989-356d-40fa-a689-8f285b13f1f2>

For some reason, Outlook Account User Name and Password did not work for me but Microsoft Account User name and Password did work.

12.2.3.2 Generate App Password for Outlook

User must login to Outlook account, enable 2-step verification and generate App Password for Outlook Account. Follow the link below to generate App Password:

<https://support.microsoft.com/en-us/account-billing/using-app-passwords-with-apps-that-don-t-support-two-step-verification-5896ed9b-4263-e681-128a-a6f2979a7944>

12.3 Mail Sending and Size Limits

The limits are listed here to the best of our knowledge and they might be changed by the mail service providers anytime without notice. For regular users, Gmail seems to offer better more predictable service than Yahoo or Outlook. However, Yahoo supports mails up to **39MB** in size vs **35MB** by Outlook and vs **25MB** by Gmail.

Users are mainly responsible for observing sending limits. MBox Viewer will limit the sending rate to 30 mails/minute.

12.3.1 Gmail Mail Service

Sending can be rejected by Gmail for variety of reasons. If a user exceeds various limits, user account can be locked for up to 24 hours. User can take manual steps to restore access.

Regular users are allowed to send up to 500 mails per day.

Mails can be rejected if they are being sent too fast or to too many recipients.

Mails of up to **25MB** are accepted.

12.3.2 Yahoo Mail Service

Sending can be rejected by Yahoo for variety of reasons. If a user exceeds various limits, user account can be locked for up to 24 hours. User can take manual steps to restore access.

Yahoo does not disclose sending and size limits.

Mails of up to **39MB** are accepted.

12.3.3 Outlook Mail Service

Sending can be rejected by Outlook for variety of reasons including suspicion of spamming. If a user exceeds various limits, user account can be locked for up to 24 hours. User can take manual steps to restore access.

Mails of up to **35MB** are accepted. If you attempt to send larger mail, it will appear that the sending was successful. However, Outlook will post rejection mail into your Outlook account.

The other sending limits are not known.

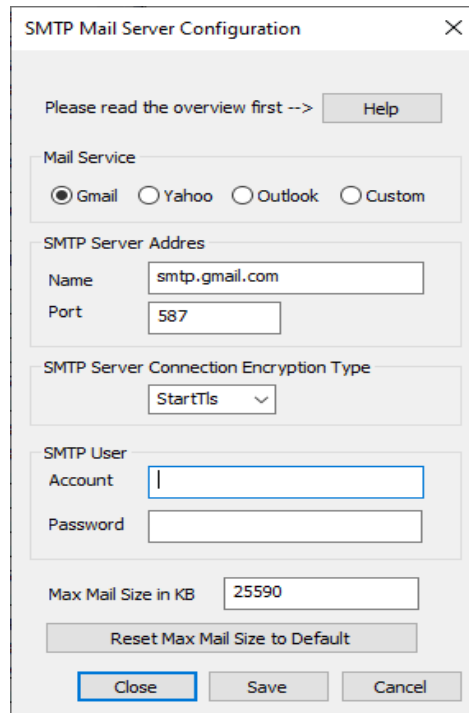
12.4 SMTP Server Configuration

Select “File → SMTP Mail Server Config” to open the configuration dialog. Select one of the listed mail services, enter User Account and Password and click on the “Save” button to save the changes.

When you select “Close” button, the SMTP.ini file is created for the selected service in C:\Users\%USERNAME%\AppData\Local\MBoxViewer\MailService and used by ForwardEmlFile.exe to support forwarding of emails.

The “Cancel” button is used to clear unsaved changes made in the dialog. If you switch to different mail service, the unsaved changes in the dialog are lost.

When you exit MBox Viewer, User Password is not saved in the system for safety reasons and must be reentered before any mail can be forwarded again.

The image shows a 'SMTP Mail Server Configuration' dialog box. It has a title bar with a close button. Inside, there's a message 'Please read the overview first -->' and a 'Help' button. Below that is a 'Mail Service' section with radio buttons for 'Gmail' (selected), 'Yahoo', 'Outlook', and 'Custom'. The 'SMTP Server Address' section has 'Name' (smtp.gmail.com) and 'Port' (587) fields. The 'SMTP Server Connection Encryption Type' section has a dropdown menu set to 'StartTls'. The 'SMTP User' section has 'Account' and 'Password' fields. At the bottom, there's a 'Max Mail Size in KB' field (25590) and a 'Reset Max Mail Size to Default' button. The dialog ends with 'Close', 'Save', and 'Cancel' buttons.

12.4.1 SMTP Servers Default Settings

SMTP Server Address	smtp.gmail.com	smtp.mail.yahoo.com	smtp-mail.outlook.com
SMTP Server Port	587	587	587
SMTP Security	StartTls	StartTls	StartTls

12.5 Forwarding Mails

MBox viewer supports forwarding of a single and multiple emails.

Note that From address can be specified by a user while in Custom SMTP Configuration option only.

12.5.1 Forwarding a single email

Right click on any email and select “Forward Mail” option to open the dialog to forward the selected email. The dialog can be manually resized if needed.

Forward Mail

Service: Gmail

Subject: Re: svnservice with corrupt timestamps and malformed text representation

From: john.silver@gmail.com

To: tom.feld@gmail.com

CC: barbara.forest@gmail.com

BCC:

User Text:

Please review the attachment and provide feedback.

Thank you,
John

Clear Send Cancel

The non-empty To field is required. Other fields are optional. When you open the dialog, To, CC, BCC and User Text fields will show the values set in the last dialog. You can clear these fields by clicking on the “Clear” button.

It is important to make sure all addresses are correct and valid. If any address is not valid, a rejection email will be send by the mail service to the respective user’s mail account. **MBox Viewer doesn’t have access to user’s mail accounts.**

12.5.2 Forwarding a list of selected emails

User can select multiple email, then right click on any of the selected emails and select “Forward Mails” option to open the dialog to forward the selected email.

To avoid suspension of the user account, the user is warned if the user attempts to forward batch of emails larger than 100. User is also warned when any of the select mails to forward is larger than supported maximum size.

12.5.3 Error Reporting

If forwarding of a mail fails, MBox Viewer will create Message Box with relevant error text.

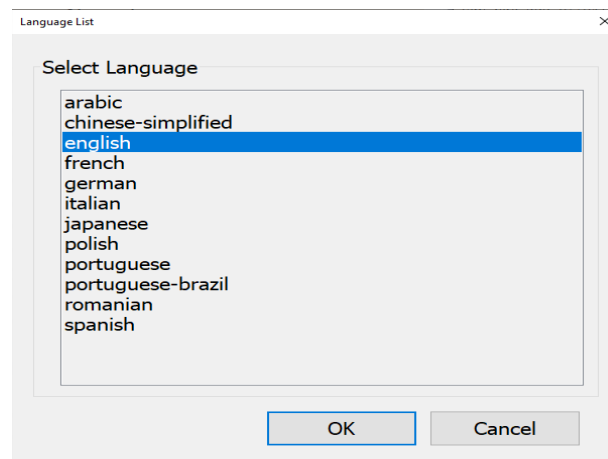
13 Support for Multiple Languages

Starting with version 1.0.3.47, MBox Viewer implements more complete support for multiple languages.

Window's text, button's labels, menu labels, etc of dialogues, message boxes, menus of mails, mail files and Help Files, User Guide can be configured by users to display in German, French, Spanish, Italian, Polish, Portuguese, Portuguese-Brazil languages, Japanese, Chinese-Simplified and Arabic.

13.1 Language Configuration

Language to be used by MBox Viewer can be configured by selecting “Language-->Select Language” main menu option. The following dialog will appear and allow users to select new language. MBox Viewer must be restarted for new language to take effect.



13.2 Limitations

1. In many cases the text translated to other languages will not fit in the fixed template defined for English text and it will be truncated. As a work around, user can move cursor over the truncated text to activate Tool Tips with the full text.
2. The English text and documents were translated to other languages by free Google Translation service and not reviewed by humans yet. Free Google Translation service is not domain specific and therefore has limitations. It is designed to translate commonly daily spoken language. Better use of Google Translation service needs to be investigated.
3. There are occasional issues with WORD documents translated by free Google Translation service with regard to formatting and other issues. Translated WORD documents are later exported to PDF.
4. Support for Arabic language is experimental and needs users feedback fluent in both English and Arabic.

14 Windows Code Page Identifiers

The table below shows the supported character sets/code pages by Windows platform. The list is based on the following link.

[https://msdn.microsoft.com/en-us/library/windows/desktop/dd317756\(v=vs.85\).aspx](https://msdn.microsoft.com/en-us/library/windows/desktop/dd317756(v=vs.85).aspx)

Code Page	Name	Display Name
37	IBM037	IBM EBCDIC (US-Canada)
437	IBM437	OEM United States
500	IBM500	IBM EBCDIC (International)
708	ASMO-708	Arabic (ASMO 708)
720	DOS-720	Arabic (DOS)
737	ibm737	Greek (DOS)
775	ibm775	Baltic (DOS)
850	ibm850	Western European (DOS)
852	ibm852	Central European (DOS)
855	IBM855	OEM Cyrillic
857	ibm857	Turkish (DOS)
858	IBM00858	OEM Multilingual Latin I
860	IBM860	Portuguese (DOS)
861	ibm861	Icelandic (DOS)
862	DOS-862	Hebrew (DOS)
863	IBM863	French Canadian (DOS)
864	IBM864	Arabic (864)
865	IBM865	Nordic (DOS)
866	cp866	Cyrillic (DOS)
869	ibm869	Greek , Modern (DOS)
870	IBM870	IBM EBCDIC (Multilingual Latin-2)
874	windows-874	Thai (Windows)
875	cp875	IBM EBCDIC (Greek Modern)
932	shift_jis	Japanese (Shift-JIS)
936	gb2312	Chinese Simplified (GB2312)
949	ks_c_5601-1987	Korean
950	big5	Chinese Traditional (Big5)
1026	IBM1026	IBM EBCDIC (Turkish Latin-5)
1047	IBM01047	IBM Latin-1

Code Page	Name	Display Name
1140	IBM01140	IBM EBCDIC (US-Canada-Euro)
1141	IBM01141	IBM EBCDIC (Germany-Euro)
1142	IBM01142	IBM EBCDIC (Denmark-Norway-Euro)
1143	IBM01143	IBM EBCDIC (Finland-Sweden-Euro)
1144	IBM01144	IBM EBCDIC (Italy-Euro)
1145	IBM01145	IBM EBCDIC (Spain-Euro)
1146	IBM01146	IBM EBCDIC (UK-Euro)
1147	IBM01147	IBM EBCDIC (France-Euro)
1148	IBM01148	IBM EBCDIC (International-Euro)
1149	IBM01149	IBM EBCDIC (Icelandic-Euro)
1200	utf-16	Unicode
1201	unicodeFFFE	Unicode (Big-Endian)
1250	windows-1250	Central European (Windows)
1251	windows-1251	Cyrillic (Windows)
1252	Windows-1252	Western European (Windows)
1253	windows-1253	Greek (Windows)
1254	windows-1254	Turkish (Windows)
1255	windows-1255	Hebrew (Windows)
1256	windows-1256	Arabic (Windows)
1257	windows-1257	Baltic (Windows)
1258	windows-1258	Vietnamese (Windows)
1361	Johab	Korean (Johab)
10000	macintosh	Western European (Mac)
10001	x-mac-japanese	Japanese (Mac)
10002	x-mac-chinesetrad	Chinese Traditional (Mac)
10003	x-mac-korean	Korean (Mac)
10004	x-mac-arabic	Arabic (Mac)
10005	x-mac-hebrew	Hebrew (Mac)
10006	x-mac-greek	Greek (Mac)
10007	x-mac-cyrillic	Cyrillic (Mac)
10008	x-mac-chinesesimp	Chinese Simplified (Mac)
10010	x-mac-romanian	Romanian (Mac)
10017	x-mac-ukrainian	Ukrainian (Mac)
10021	x-mac-thai	Thai (Mac)

Code Page	Name	Display Name
10029	x-mac-ce	Central European (Mac)
10079	x-mac-icelandic	Icelandic (Mac)
10081	x-mac-turkish	Turkish (Mac)
10082	x-mac-croatian	Croatian (Mac)
12000	utf-32	Unicode (UTF-32)
12001	utf-32BE	Unicode (UTF-32 Big-Endian)
20000	x-Chinese-CNS	Chinese Traditional (CNS)
20001	x-cp20001	TCA Taiwan
20002	x-Chinese-Eten	Chinese Traditional (Eten)
20003	x-cp20003	IBM5550 Taiwan
20004	x-cp20004	TeleText Taiwan
20005	x-cp20005	Wang Taiwan
20105	x-IA5	Western European (IA5)
20106	x-IA5-German	German (IA5)
20107	x-IA5-Swedish	Swedish (IA5)
20108	x-IA5-Norwegian	Norwegian (IA5)
20127	us-ascii	US-ASCII
20261	x-cp20261	T.61
20269	x-cp20269	ISO-6937
20273	IBM273	IBM EBCDIC (Germany)
20277	IBM277	IBM EBCDIC (Denmark-Norway)
20278	IBM278	IBM EBCDIC (Finland-Sweden)
20280	IBM280	IBM EBCDIC (Italy)
20284	IBM284	IBM EBCDIC (Spain)
20285	IBM285	IBM EBCDIC (UK)
20290	IBM290	IBM EBCDIC (Japanese katakana)
20297	IBM297	IBM EBCDIC (France)
20420	IBM420	IBM EBCDIC (Arabic)
20423	IBM423	IBM EBCDIC (Greek)
20424	IBM424	IBM EBCDIC (Hebrew)
20833	x-EBCDIC-KoreanExtended	IBM EBCDIC (Korean Extended)
20838	IBM-Thai	IBM EBCDIC (Thai)
20866	koi8-r	Cyrillic (KOI8-R)

Code Page	Name	Display Name
20871	IBM871	IBM EBCDIC (Icelandic)
20880	IBM880	IBM EBCDIC (Cyrillic Russian)
20905	IBM905	IBM EBCDIC (Turkish)
20924	IBM00924	IBM Latin-1
20932	EUC-JP	Japanese (JIS 0208-1990 and 0212-1990)
20936	x-cp20936	Chinese Simplified (GB2312-80)
20949	x-cp20949	Korean Wansung
21025	cp1025	IBM EBCDIC (Cyrillic Serbian-Bulgarian)
21866	koi8-u	Cyrillic (KOI8-U)
28591	iso-8859-1	Western European (ISO)
28592	iso-8859-2	Central European (ISO)
28593	iso-8859-3	Latin 3 (ISO)
28594	iso-8859-4	Baltic (ISO)
28595	iso-8859-5	Cyrillic (ISO)
28596	iso-8859-6	Arabic (ISO)
28597	iso-8859-7	Greek (ISO)
28598	iso-8859-8	Hebrew (ISO-Visual)
28599	iso-8859-9	Turkish (ISO)
28603	iso-8859-13	Estonian (ISO)
28605	iso-8859-15	Latin 9 (ISO)
29001	x-Europa	Europa
38598	iso-8859-8-i	Hebrew (ISO-Logical)
50220	iso-2022-jp	Japanese (JIS)
50221	csISO2022JP	Japanese (JIS-Allow 1 byte Kana)
50222	iso-2022-jp	Japanese (JIS-Allow 1 byte Kana - SO/SI)
50225	iso-2022-kr	Korean (ISO)
50227	x-cp50227	Chinese Simplified (ISO-2022)
51932	euc-jp	Japanese (EUC)
51936	EUC-CN	Chinese Simplified (EUC)
51949	euc-kr	Korean (EUC)
52936	hz-gb-2312	Chinese Simplified (HZ)
54936	GB18030	Chinese Simplified (GB18030)
57002	x-iscii-de	ISCII Devanagari

Code Page	Name	Display Name
57003	x-iscii-be	ISCII Bengali
57004	x-iscii-ta	ISCII Tamil
57005	x-iscii-te	ISCII Telugu
57006	x-iscii-as	ISCII Assamese
57007	x-iscii-or	ISCII Oriya
57008	x-iscii-ka	ISCII Kannada
57009	x-iscii-ma	ISCII Malayalam
57010	x-iscii-gu	ISCII Gujarati
57011	x-iscii-pa	ISCII Punjabi
65000	utf-7	Unicode (UTF-7)
65001	utf-8	Unicode (UTF-8)

14.1 Handling Unknown Code Page Names

In a few cases, mboxview will map unknown code names to the equivalent code names supported by Windows.

Unknown Code Name	Mapped To Code Name
gbk	GB18030
cp1252	Windows-1252
ascii	us-ascii
cp819	iso-8859-1
latin1	iso-8859-1
latin2	iso-8859-2
big-5	big5
SJIS	shift_jis