AUTO7P v1.30

FBB server compatible with 7plus 2.02 (1.63)

(c) IK1GKJ@IW1BRX.ITA.EU.
7PLUS routine by DG1BBQ@DB0CL

THIS SERVER IS NOT COMPATIBLE WITH 7PSERV OF SM0NCS
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Again: sorry my bad Eglish.

UPDATED
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Version 1.0   Beta test named 7PSERV

Version 1.10
     From the bulletin in circulation, i have noted that SM0NCS is
very furious for the fact that i have called this server whit the
same name of his server. I have changed the name, i hope that now
he do not have other problem. Again i will specify, like is write
in the docummation of my server, that the name 7pserv , of the
previus version, was not to steal the 'royaltes' of SM0NCS, but
only to remember the server and 7plus.

     Now you can redirect the output of the server also for the
.cor correction file. (sysop only)

     You can recall also a single part of a files or .cor file, if
this is better of the recall the global file.

The import file, MAIL.IN, now must be split in more parts, you can decide the size. The same server provide to recompose MAIL.IN

The same server, can be inserted in the cron.sys file, and can extract from all the bullettin that you have receive on your bbs all the 7+ file, recompose it, and request correction for errors.

The user can not use the server to download files, they can upload data, .err, .cor, but to download files they must be enable by sysop.

The return path is now read directly trought FBB path.

Version 1.20
Speed up extraction module routine, now is 3 time more faster.

Correct return path extraction routine, now accept some non standard format.

Added program M_FILTER, to extract only 7plus code from mail, this is an alternative form of the forward file, and may speed up bbs activity.

Added the variable 7PMANAGER, to specify a manager callsign. If found, the server send its message to this callsign, else the sysop message are send to the bbs callsign.

Version 1.21
If the user write anythin in the title of the message over the title of the file, the file name was not properly decoded. Fixed.

If a 7plus code arrived truncated on the bbs, when auto7p attempt to decode, it stop and send out a "write error on metafile" message to the sysop; the metafile was deleted. Now the metafile is not deleted, and also if the reconstruction of the original file is not sure, a correction file is requested.

Version 1.22
In the previusly version, when extract a file with the option INQUIRYFILE, if the filename in the 7plus header was length 12 bytes, the program lose the sender of the messages. Fixed.

Version 1.30
     To remove any possibility or conflict with future expansion of
the FBB program, i have added a configuration file, AUTO7P.cfg, so
the server do not need to read any fbb files. Adding the DELETIME
options, to remove the oldest file from the \AUTO7P directory.
Adding the possibility to enable any user to download files, (only
for his callsign); see the auto7p.cfg descriptions for more
detail. Adding the possibility to move the successfully converted
files to a separate directory. No more needed the enviroment
variable 7PMANAGER and 7PMAXMAIL,   this is   defined in   the
configuration file. The server now do not read the init.srv and
inf.sys file, this speed up the execution.

INSTALLATION
=============

        Copy the file AUTO7P.EXE in the directory where is INIT.SRV.
Next, at the end of the file INIT.SRV, insert between the two line
'-------------' this row:

AUTO7P AUTO7P Automatic encoding/decoding 7plus files

THANKS
======

I will thanks DG1BBQ that have developed the source code of 7PLUS
v 2.02 for the excellent work, since this server use hes routines
for decode and encode files.

FEATURES
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*   Output file to user, split if needed in about 6 Kb.

*   Automatic output of correction file when an .err file is
received.

*   Automatic output of .err file if any errors is encounterd
while decoding the 7+ file.

*   After a correct decoding of data, if no errors encounterd, the
server erase all the not needed file, and advise the sysop that a
new file is present.

*   If this exchange of data is between to bbs that use this
server, all the operations are automatics.

*   Again the server advise the sysop if a serious error require
his personal operation.

*   All the files are store in the directory \AUTO7P in the root
of the disk, so only the sysop can manipulate its contents.

*   Is possible move the succesfully decoded file to a separate
directory.

*   You can redirect the output of a the server for files and
.cor, so you can send it like SP/SB to any destination@bbs. This
option is only for those calls enabled in the auto7p.cfg file, and
work only for data and .cor files. (Is a non-sense send out a .ERR
file to IBM@WW !).

*   You can recall a single split part of the file, or .cor, when
this is better than the entire block of data.

*   You can redirect a message to the server with the command SC
od FBB, the server provide to extract the corret start call and
the return path, so if a user send to you a .cor file insted of
the serve, you can redirect it. (Enabled user only).

*   The MAIL.IN file can be splitted in more parts, you choose the
size. In this case the server provide to recompose it every hours.

*   If you insert the server also in the cron.sys, you can extract
from a forward file all the 7plus file, recompose it, and request
a correction file if an error is encountered.

*   The   user can download the file only if the sysop enable his
callsingn,   or if the global download flag is set: in this case,
the callsign may be excluded.

*   The server may deleted any files in the \AUTO7P directory that
have a date oldest of the specified numbers of day.

*   If the user attempt to download a file, and he is not enable,
he receive a message with the prayer to call the sysop to obtain
authorization,   and the sysop is advised, so he can decide if
enable this user to download file.

*   For last, the server return an error code to FBB if any serius
error occurs and it is unable to operate.   FBB will provide to
advise the sysop of the malfunction.
This is all the possible server error:

+   Unable to open or write MAIL.IN file.
+   Insufficient memory to run.
+   The server was not called in the corret mode.
+   Unable to open or read the file passed like argument from FBB,
       or the format for this file is unknown.
+   Unable to open or read AUTO7P.CFG file.
+   Unable to access and create \AUTO7P directory.
+   Unable to access and create (if setup), the converted file
       directory

THE CONFIGURATION FILE AUTO7P.CFG
==================================

In this file is specified all is needed to the server for his configuration. This is a very simple file:

Every line that start with the '#' symbol, like the FBB style, is a comment and ingnored. The first seven valid line, are the enviroment configuration for the server, and must be all defined. The other, form eight to XXXX, are optional, and are the callsign authorizations flags.

Here the list and documentation about the first seven lines:

Parameter 1, is the callsign of the BBS, whitout the SSID; you may put, for example, IK1GKJ, but not IK1GKJ-8

Parameter 2, base directory for the server. When you split a program to send out, this is the directory where the server start the search. For example, if you put C:\YAPP\, (DO NOT FORGET THE '\' AT THE END), and you want send the BIN\TTT.EXE programs, the server   transform   your   command in C:\YAPP\BIN\TTT.EXE. This parameters usually is the \USERS\YAPP directory.

Parameter 3, the path and name of the import file of the bbs, for FBB, the MAIL.IN file. Must be the same that you have declared in your INIT.SRV file.

Parameter 4, is the directory where the server move and store the successfully decoded files. If you do not want move the files, put the \AUTO7P\ statement, and the programs remain in the auto7p directory. If the specified directory do not exist, the server provide to create it. Again, DO NOT FORGET THE '\' AT THE END OF THE PATH. Any drive my be set, but floppy disk is not recomended, since the server do not trap the dos INT23 critical handler, and if the disk is full, or not found, the program my be stopper. (Retry, Abort, Fail DOS request.)

Parameter 5, redirection calssign for the message of the server to the sysop, and ex 7PMANAGER enviroment variable. Is possible, for a group of OM, that the callsign of the sysop that manage the software is not the same of the bbs callsign. Setup here this callsign. If the callsign is the same, duplicate here the BBS callsign.

Parameter 6, Max lenght before split for the MAIL.IN file, and ex 7PMAXMAIL enviroment variable. This value, in Kbytes, set the maximum lenght for the import file. The next part of the splitted

file is stored in temp. files, and recomposed by the server every
hours. This save the forward net from large input of data that may
rallenty the other message to forward. The range of this variable
is from 20 to 1000 KBytes, any value out of this range or equal to
0, disable the split option, and all the spitted data will be
imported to the bbs in a signle block. I have tested this
possibility with a single block of 800Kbytes, and no errors was
detected. IS NOT A GOOD IDEA DO A SINGLE BLOCK OF IMPORT, 50-70 is
a right value.

        Parameter 7, global authorization to download files. If you
set this field to 0, only the users set up in the (optional) next
lines with a flags of 1 or 2 may request a download. The other
users may only request a correction files or upload programs.
If you set this field to 1, all the user may request a download,
but not the user with a flags of 0: this users may only upload
data and request a correction file.

        Please note that this field only enable the personal download,
for example if a users needed of a .EXE file but do not have a
YAPP compatibility program. The redirection option, send the
message to SB IBM @ EU for example, is only for the callsign set
with the flags = 2.

        So next lines, must have this form: CALLSIGN FLAGS. The
callsign must be without SSID, it found, it will be ignored, and
the flag may assume this value:
        0   the callsign may only upload and request corrections
        1   the callsign may download data.
        2   no restrictions apply, always full access.

For example:
        IK1GKJ 2
        IK1MSL 1
        IK1XXX 0

If the parameters seven is set to 0, only IK1MSL may do a
download, and only for his callsign. IK1GKJ do not have any
restrictions, any other user may only request correction and
upload data, IK1XXX do not care in this case.

If the parameter seven is set to 1, any users may do a download,
personal to his callsign, IK1XXX may only request a correction and
upload files, IK1GKJ do not have any restriction, IK1MSL do not
care in this example.

THE KEY WORDS
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AUTO7P TO SB/SP [DESTINATION] [[@ BBS]]

            Application: output data files and .cor
            [Users flag=2 only]

      This variable, inserted in the text of the file, can force the
type of message, the destination and bbs fields. The parameters
between [] are optionally, bat the parameters must be inserted
sequentially. Normally AUTO7P use the type SP for the message, but
you can redirect it to SB. You can insert for example SB IBM, but
is incorret insert only IBM.

You can redirect to:

      AUTO7P TO SB
      AUTO7P TO SB DESTINATION
      AUTO7P TO SB DESTINATION @ BBS

AUTO7P PART x

            Application: send data .err files
            [Data Users flag=1, correction all]

Whit this command, inserted in the text of the file, you can
request a specified part of a file. If, for example, you note that
a .err file contain to many error for a single part of the source
file, you can request again that part of the file, instead of the
correction file. Also if you receive multiple .cor file, and one
of them was lost, you can request this single lost part.

You can use AUTO7P PART and simultaneusly AUTO7P TO.

AUTO7PCLOCK

        Application: recompose the forward.

        If you have specified a size to split the import file, parameter six in the auto7p.cfg, you MUST add in the CRON.SYS this statement:

        X AUTO7P AUTO7PCLOCK

So, every hour, the FBB parogram call the auto7p, and the server attempt to setup a new block of forward form the temp. files previusly splitted.

INQUIRYFILE filename

        Application: extract and recompose 7+ files

        Whit this command, the server extract from a disk forward file, all the 7plus part, and when complete, attempt to decode. If any errors was encounterd, a correction file was request to the sender. To obtain this, is needed only few modify to the FBB files:

In BBS.SYS, insert the name AUTO7P, in a free row.

        before   after
        01 IK1MSL   01 IK1MSL
        02 IW1BRX   02 IW1BRX
        03   03 AUTO7P
        04   04

In FORWARD.SYS, create a block of forward: the next example assume that you want inquiry all bullettin, and the personal message to SYSOP. The line ! B IK1GKJ, my bbs name, is needed to not obtain double data, since if the 7plus is direct to AUTO7P@IK1GKJ is already intercept from AUTO7P directly.

```
#
A AUTO7P
P @
! B IK1GKJ
B AUTO7P
F SYSOP
G *
C D:\FBB\AUTO7P.FWD
```

Note that in this example, my forward file is called
D:\FBB\AUTO7P.FWD, so in the CRON.SYS insert his line:

        X AUTO7P INQUIRYFILE D:\FBB\AUTO7P.FWD

This is all, again the server will advise the sysop when a file is
correctly decoded, and request a correction file to the sender if
the part is corrupted. You can insert in CRON.SYS whether
INQUIRYFILE or AUTO7PCLOCK command.

****
READING THE INFO ABOUT THE PROGRAM M_FILTER FOR AN ALTERNATIVE AND
MORE EFFICENT USE OF THE AUTO7P INQUIRYFILE COMMAND.
****

The extraction of 7plus data form forward file is locked to this
sample rule:

        The message must not be a copy. If it is a copy, it will be
ignored, this to not obtain duplicate file.

        From the forward file will be extract only the .7PL and .Pxx
file, this because .ERR file is not needed, and .COR because i do
not know if the corection file refer to the part that i have
receive, since my part may be ok.

        If i already have this file, or i already have the decoded
file, the message is ignored.

When a file is correctly decoded, the sysop will be advised.

DELETIME day

            Application: Delete oldest files from \AUTO7P\

        Use this option to delete oldest files from the \AUTO7P\
directory. Due to many cause, you may receive olny some parts of a
7plus file, or you may nevar receive the requested correction file
for a correpted program. Since this files is not completed, the
server nevar may recompose it! This cost space on your hard disk!

        You may kill this files after a time that you retain just, for
example, after 30 days from the reception of the message.

The   DAY parameter, specify the   time to live   of your data in
the   \auto7p directory, and   must be   passed in number   of day. For
example,   AUTO7P   DELETIME   30,   delete all   files   in   the \auto7p
directory oldest of 30 days from the current data.

Use   with   care,   a small   epurmess   value,   may   inhibite the
composition of the data. A right value, may be between 25 and 40.

To   use this option,   edit your   APPEL.BAT file, and   add this
statement just before or after the EPURMESS command:

AUTO7P DELETIME x

SC COMMAND OF FBB

The   server recognize   the duplicate   message, end from   it extract
the original sender and path.
This option is   useful for the sysop, and reserved only to the user
flag   callsign set   to   2, when   a user   send   out, for   example, a
correction   file to the   callsing of   the sysop instead   of AUTO7P.
You must only do

SC #msg AUTO7P

This option   can work join with AUTO7P TO,   so you can redirect the
ouput (may be useful?).

HOW TO USE THE SERVER
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The parts in square brackets [] are optionally.
Please note that the start directory of the sever is always that
is defined in the AUTO7P.CFG file, This directory must not be
included in the part. You must include only the subsequend
directory.

The user , or other FBB, ask for a file

        You may download file only if your callsign is setup in the
auto7p.cfg file to 1 or 2, or if the global download flag is set
to 1 and the is callsign is not set to 0.

        If this condistions is not valid, the sysop will be advised
for the unauthorized request, and the user will receive a message
to contact the sysop for the abilitation.

SP AUTO7P [@ BBS]
UTILITY\TEST.COM
[AUTO7P TO .....]   (user flag=2 ONLY)
[AUTO7P PART ....]
/ex

The user, or other FBB, request a correction file.

        This possibility is always enabled.

SP AUTO7P [@ BBS]
UTILITY\TEST.ERR
[AUTO7P PART .....]
[AUTO7P TO ......]   (users flag=2 ONLY)
......
CONTENTS OF THE ERROR FILE
......
/EX

The user, or other FBB send a correction file.

        This option is always enbled.

SP AUTO7P [@ BBS]
UTILITY\TEST.COR   (or C01, C02 ....)
. . . . .
CONTENTS OF THE CORRECTION FILE
. . . . .
/EX

The user, or other FBB, upload a file.

        This possibility is always enabled.

SP AUTO7P [@ BBS]
UTILITY\TEST.7PL   or   .P01,P02 etc.
. . . . . .
CONTENTS OF THE FILE
. . . . . .
/EX

You have surely noted that i have always written the path of the
source file: THIS IS THE ONLY WAY for AUTO7P to manage the
automatic file transfer. If you do not do this, the server can not
work properly.

ALWAYS SPECIFY THE SOURCE PATH.

Again remember that the path ALWAYS start under the directory
specified in the AUTO7P.CFG file.

If the exchage of data occur between two AUTO7P server, the return
path will be AUTO7P @ BBS.

NOTE for SYSOP

        Since   this server   have a   different name from   the previusly
beta   test   (7PSERV), if   you   have   just send   out   data   with the
previusly   server, do not   remove it   from the list   of the server,
but maintain   it for a time that you   judge sufficient to answer to
eventually   error file tah   you may receive; but   form now use this
server for you work.

        If   you note any   malfunction, or have   any suggestion, please
send to IK1GKJ @ IW1BRX.

Best 73, Mario IK1GKJ@IW1BRX

NB: All 7plus routine   conversion in   the program is   copyright of
DG1BBQ,   i have   extract them   form the   source code of   7plus 202,
modified where needed and construct a control interface for it.
So many thanks to Axel, DG1BBQ.