# Guide Share Europe
# March 2010

# Recent Password Phrase Support (z/OS V1R10)

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# Session Objectives

- Describe changes related to Password Phrase support
  - Overview of updated support
    - How RACF changed
    - What changed in other components

# What RACF Externals Are Affected?

- RACROUTE REQUEST=VERIFY allow PASSWORD=PassTicket and NEWPHRASE=, without requiring PHRASE=

- New field added to the User KERB segment (List only)
  - Reports on key source (password or password phrase)

# Other RACROUTE Enhancements

- SETROPTS PASSWORD(WARNING(n)) support for password phrase
  - Now that TSO provides password phrase support in R10, wouldn't you like to see:

    ICH70002I YOUR PASSWORD PHRASE WILL EXPIRE IN 10 DAYS
- Lift the restriction that ICH70001I and ICH70002I are not returned when MSGRTRN= and ACEE= are specified on RACROUTE REQUEST=VERIFY/X
  - Informal customer requirements voiced
- Fail a "passthingy mismatch" instead of ignoring it
  - E.g. PASSWORD=,NEWPHRASE=, or, PHRASE=,NEWPASS=
  - Ignoring it leaves ambiguous behavior in applications like LDAP. User thinks his change was accepted, but it wasn't

# How RACF Password Phrase Support Changed For Kerberos

- When an administrator or end user changes **either** a password or password phrase, this becomes the current Kerberos password and keys will be generated

- This is **consistent with other products' view, like TSO/E**, that the user has a 1-100 character password

- **As before, the end user is responsible for knowing that whenever the RACF "password" changes, the Kerberos password (and key) has also changed**

# Migration & Coexistence Considerations

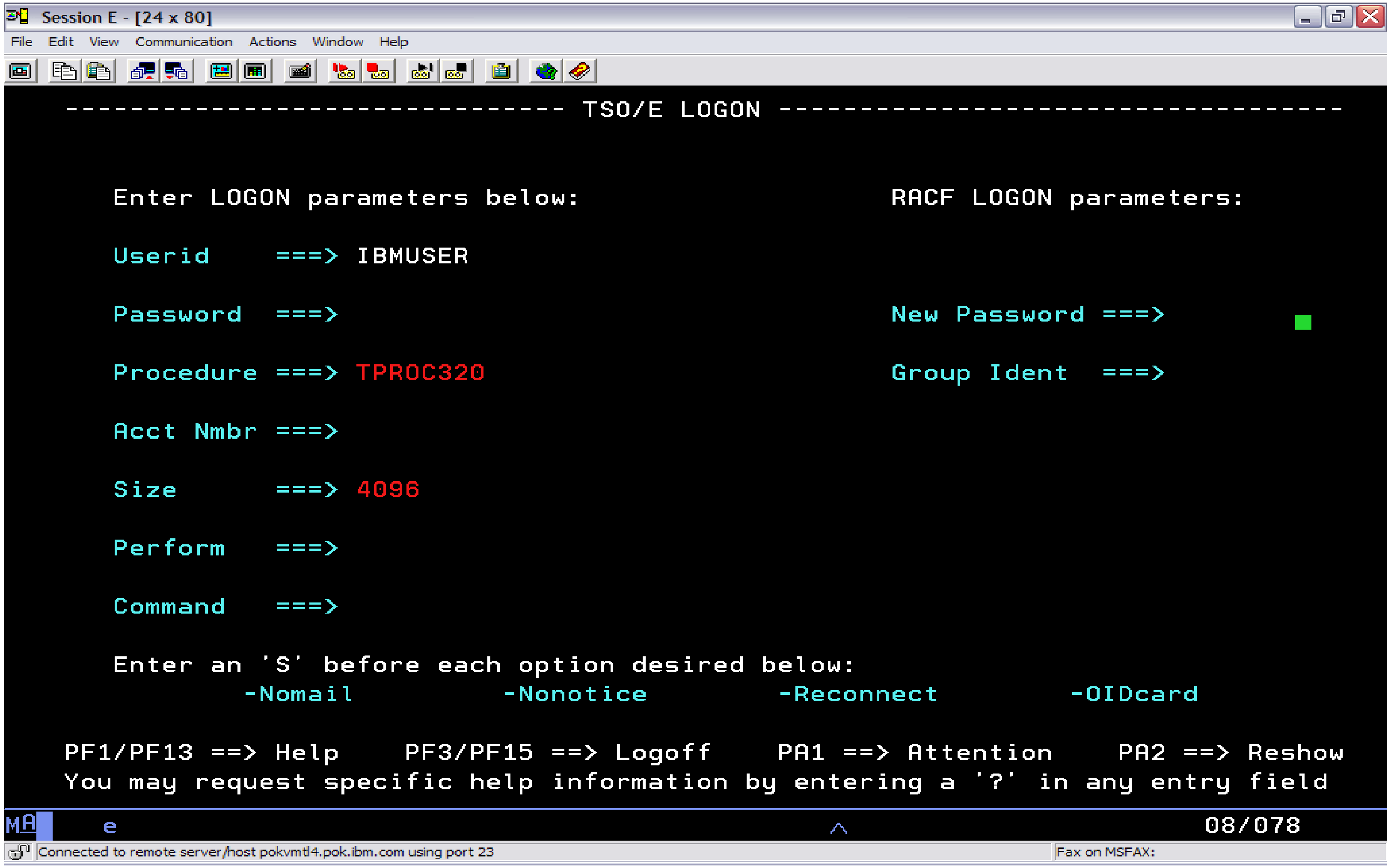
- Systems will require a toleration PTF to be installed for APAR OA22588 to ensure proper key processing for Kerberos
  - z/OS V1R6 UA39331
  - z/OS V1R7 UA39332
  - z/OS V1R8 UA39333
  - z/OS V1R9 UA39334

# TSO/E Updates

- Using this line item, the customer can:
  1. Logon with either a password or a password phrase
  2. Change the setting dynamically via an IKJTSOxx update
     - Activated by the following to the IKJTSOxx member:
       – LOGON PASSPHRASE(ON)

- Value:
  1. New panel still allows for eight character or less passwords
  2. Changes can be made without an IPL and easily displayed

# Password change with PASSPHRASE(OFF) – Step 1



```
  ------------------------------ TSO/E LOGON -----------------------------------


     Enter LOGON parameters below:                   RACF LOGON parameters:

     Userid    ===> IBMUSER

     Password  ===>                                  New Password ===>

     Procedure ===> TPROC320                         Group Ident  ===>

     Acct Nmbr ===>

     Size      ===> 4096

     Perform   ===>

     Command   ===>

     Enter an 'S' before each option desired below:
             -Nomail         -Nonotice        -Reconnect        -OIDcard

  PF1/PF13 ==> Help    PF3/PF15 ==> Logoff    PA1 ==> Attention    PA2 ==> Reshow
  You may request specific help information by entering a '?' in any entry field
MA    e                                                ^                    08/078
```

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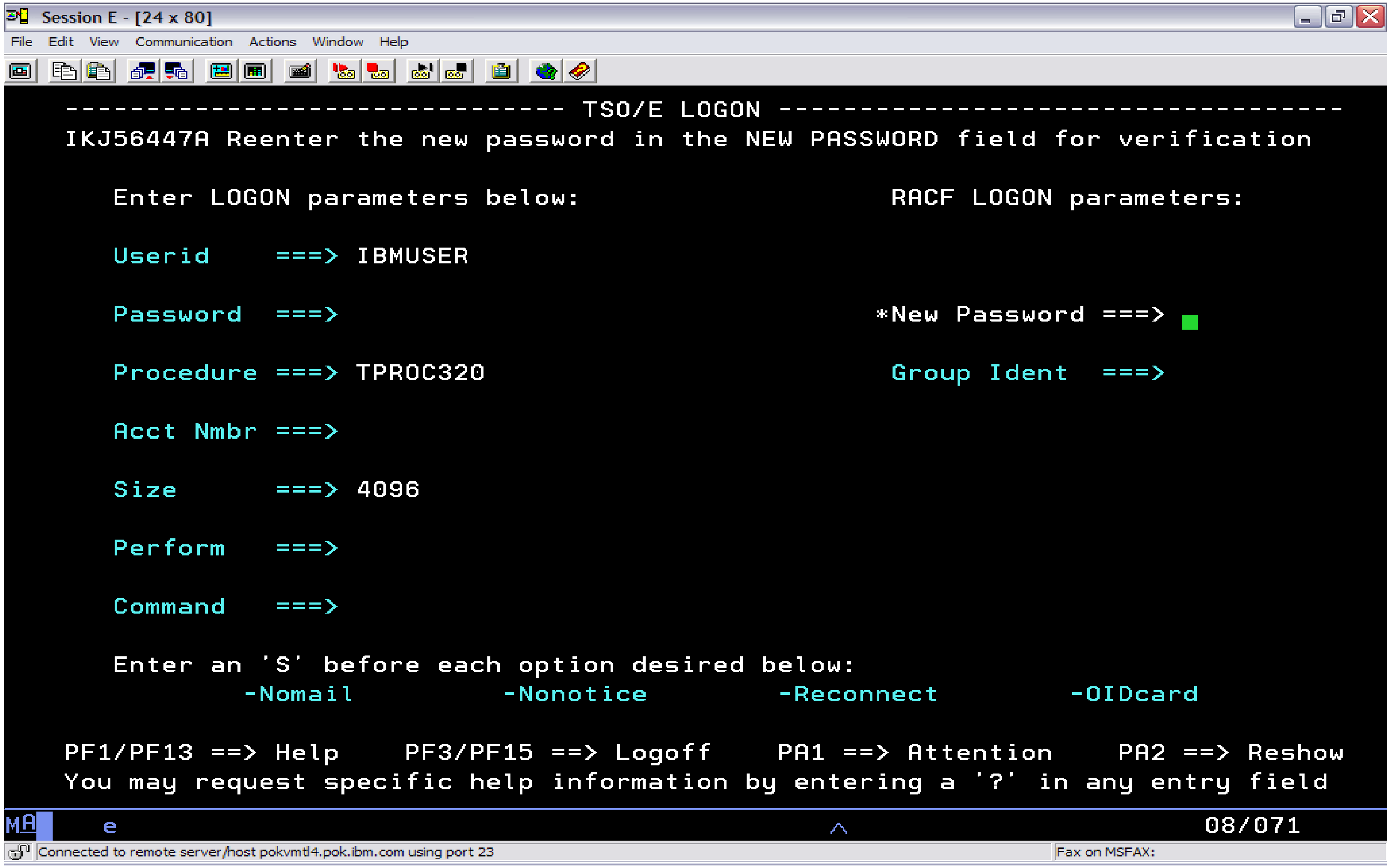
Fax on MSFAX:

# Password change with PASSPHRASE(OFF) – Step 2



```
 ------------------------------- TSO/E LOGON -----------------------------------
 IKJ56447A Reenter the new password in the NEW PASSWORD field for verification

    Enter LOGON parameters below:                  RACF LOGON parameters:

    Userid    ===> IBMUSER

    Password  ===>                                *New Password ===>

    Procedure ===> TPROC320                        Group Ident  ===>

    Acct Nmbr ===>

    Size      ===> 4096

    Perform   ===>

    Command   ===>

    Enter an 'S' before each option desired below:
            -Nomail         -Nonotice        -Reconnect        -OIDcard

 PF1/PF13 ==> Help    PF3/PF15 ==> Logoff    PA1 ==> Attention    PA2 ==> Reshow
 You may request specific help information by entering a '?' in any entry field
```

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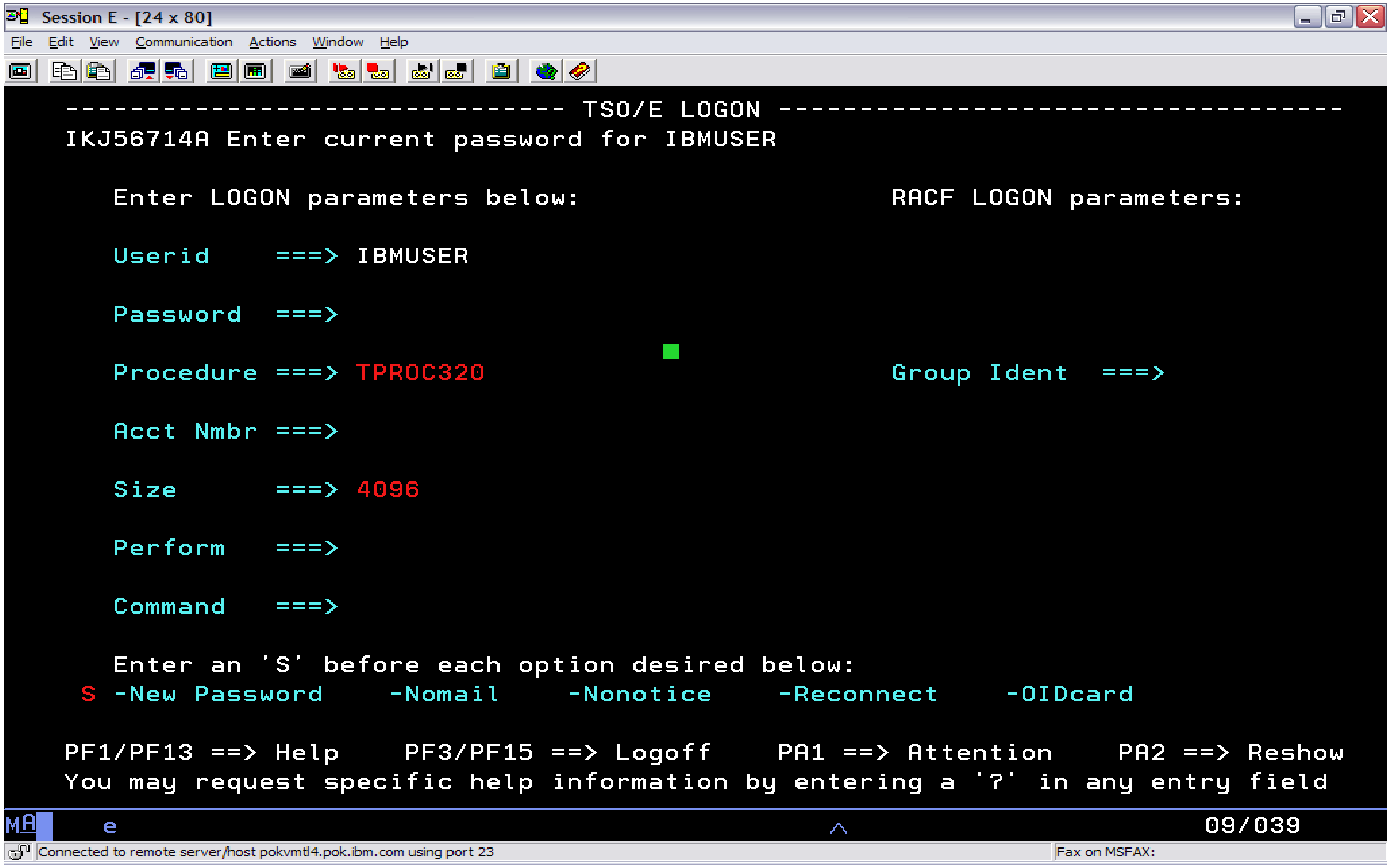
# Password change with PASSPHRASE(ON) – Step 1



```
 ------------------------------- TSO/E LOGON -----------------------------------
 IKJ56714A Enter current password for IBMUSER

    Enter LOGON parameters below:                   RACF LOGON parameters:

    Userid    ===> IBMUSER

    Password  ===>

    Procedure ===> TPROC320                         Group Ident  ===>

    Acct Nmbr ===>

    Size      ===> 4096

    Perform   ===>

    Command   ===>

    Enter an 'S' before each option desired below:
  S -New Password    -Nomail    -Nonotice    -Reconnect    -OIDcard

 PF1/PF13 ==> Help    PF3/PF15 ==> Logoff    PA1 ==> Attention    PA2 ==> Reshow
 You may request specific help information by entering a '?' in any entry field
MA     e                                                             09/039
```

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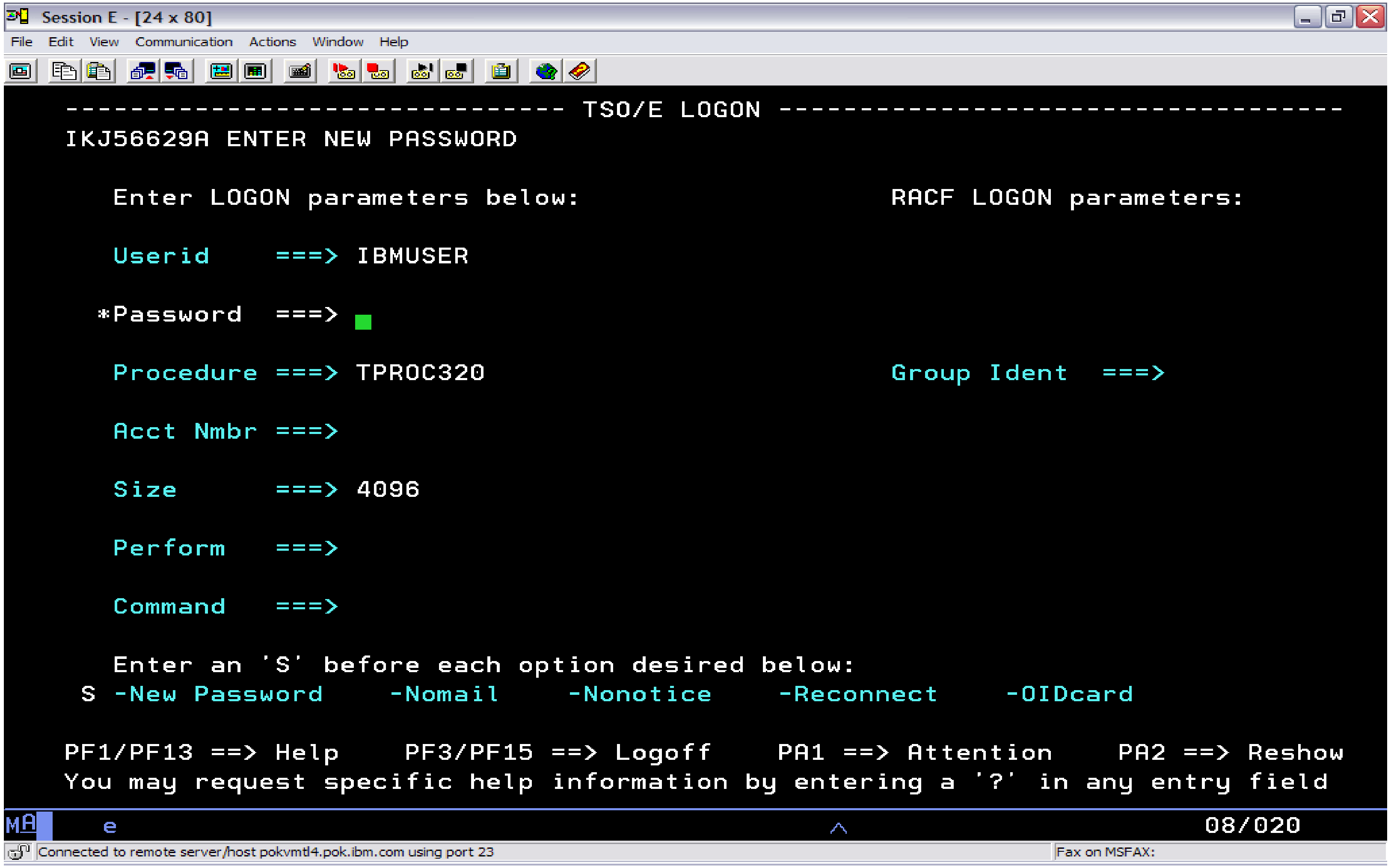
# Password change with PASSPHRASE(ON) – Step 2



```
 ------------------------------ TSO/E LOGON -----------------------------------
 IKJ56629A ENTER NEW PASSWORD

    Enter LOGON parameters below:                  RACF LOGON parameters:

    Userid    ===> IBMUSER

   *Password  ===>

    Procedure ===> TPROC320                        Group Ident  ===>

    Acct Nmbr ===>

    Size      ===> 4096

    Perform   ===>

    Command   ===>

    Enter an 'S' before each option desired below:
  S -New Password    -Nomail    -Nonotice    -Reconnect    -OIDcard

 PF1/PF13 ==> Help    PF3/PF15 ==> Logoff    PA1 ==> Attention    PA2 ==> Reshow
 You may request specific help information by entering a '?' in any entry field
```

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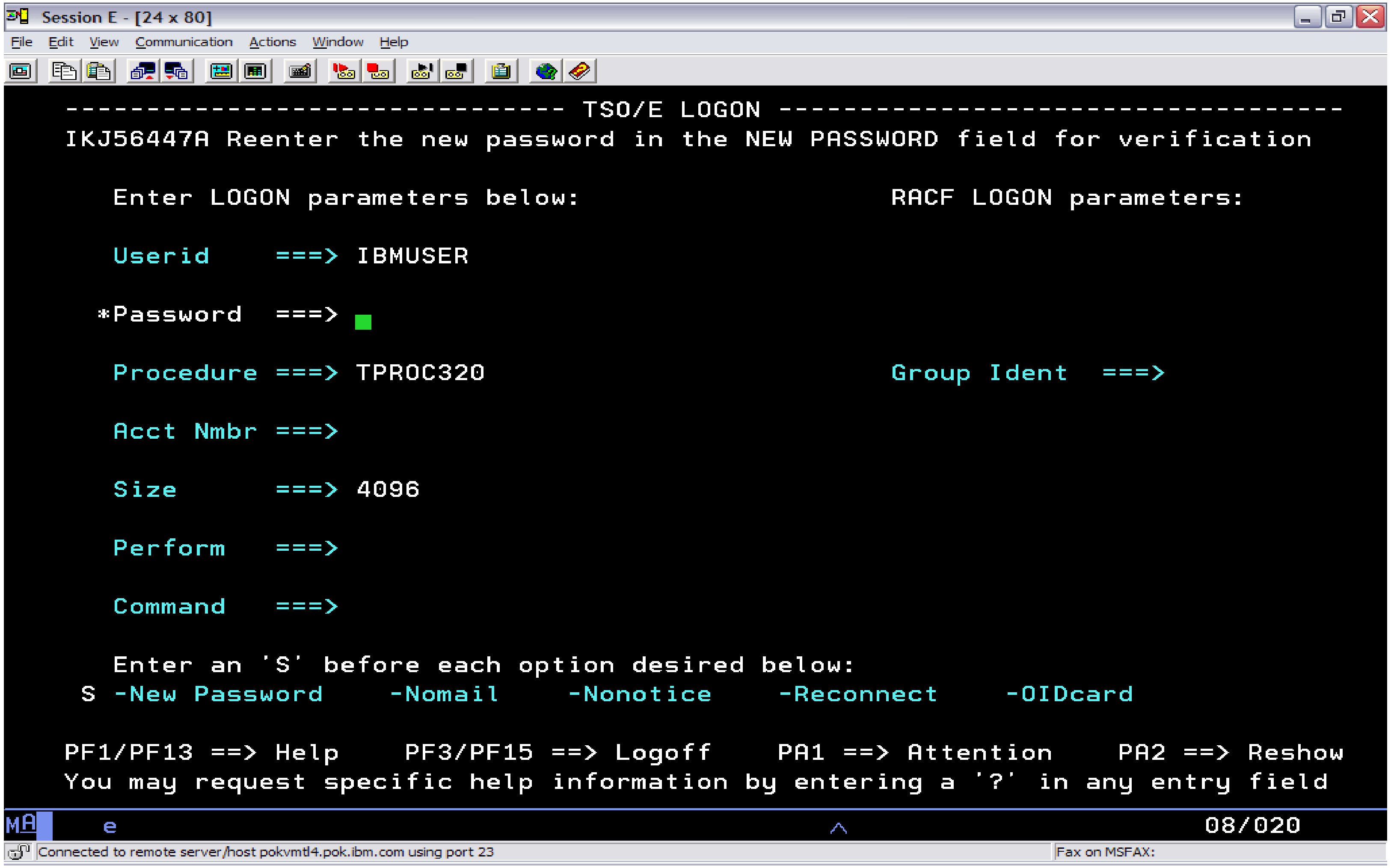
# Password change with PASSPHRASE(ON) – Step 3



```
 -------------------------------- TSO/E LOGON -----------------------------------
 IKJ56447A Reenter the new password in the NEW PASSWORD field for verification

    Enter LOGON parameters below:                     RACF LOGON parameters:

    Userid     ===> IBMUSER

   *Password   ===> 

    Procedure ===> TPROC320                           Group Ident   ===>

    Acct Nmbr ===>

    Size       ===> 4096

    Perform    ===>

    Command    ===>

    Enter an 'S' before each option desired below:
  S -New Password     -Nomail     -Nonotice     -Reconnect     -OIDcard

 PF1/PF13 ==> Help    PF3/PF15 ==> Logoff    PA1 ==> Attention    PA2 ==> Reshow
 You may request specific help information by entering a '?' in any entry field
MA      e                                                            08/020
```

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# Migration & Coexistence Considerations

- Check logon exits (IKJEFLD, IKJEFLD1, IKJEFLN1, and IKJEFLN2)
  - Should allow 100 character passwords and new passwords
  - IKJEFLD also needs to allow for a new maximum size of 255

- Check any custom logon panels
  - Need to look at IKJLQENU not just IKJLPENU

- Toleration APAR OA20525 allows the new LOGON statement in the IKJTSOxx parmlib member to be ignored on lower levels and ensures correct output for the PARMLIB LIST ROUTE command
  - UA39737 (HTE7709)
  - UA39738 (HTE7730)
  - UA39739 (HTE7740)

# UNIX System Services/LE

- Password phrase support is added to the following services
  - z/OS UNIX  Assembler callable services

    BPX1PWD/BPX4PWD

    BPX1TLS/BPX4TLS

    BPX1SEC/BPX4SEC

  - C Functions

    __passwd() / __passwd_applid()

    pthread_security_np() / pthread_security_applid_np()

    __login() / __login_applid()

# LDAP Password Phrase Use

- During bind
  - Can use a RACF password phrase instead of a password in any bind involving RACF
  - Can be changed specifying old and new phrase

- Changelog support
  - RACF creates separate changelog entry when password phrase changed
  - SDBM search specifying new **racfPassPhraseEnvelope** attribute retrieves password phrase envelope from RACF

# Additional Updates

- Password phrase support is added to the following:
  - rlogin
  - passwd
  - su
  - OpenSSH

# QUESTIONS?