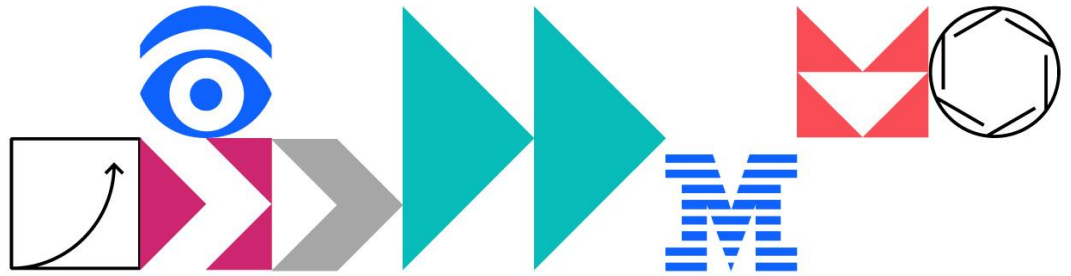




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Modernizing CICS Applications

Session 4140

Lab Exercise Guide

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Using the web browser, access the lab using the following URL: <https://emitchj.github.io/WSC-CICSzVA-Registration/>

Available Lab Exercises

- Implementing Web Services in CICS
 - L20 – SOAP based web services.
 - L90 – JSON based web services.
- Java Applications in CICS
 - L34 – How to deploy a CICS application program coded in Java using the OSGi JVM
 - L72 – Java Servlet with LINK to COBOL program
 - L93 – RESTful JSON with LINK to COBOL program using JAX-RS, JSON4J, JZOS
- z/OS Connect (CICS in Provider mode)
 - L97 – zOS Connect EE calling a COBOL application.

Lab Exercise Key: ***(z/OS Userids, Password, Port, etc)***

The labs have symbols which you will need to substitute. Symbols look like this:
<zOS_userid>.CICSLAB.UTIL

You will substitute using one of these values:

- <zOS_userid> : USER1
- <zOS_Password> : USER1
- <CICS_Port> : 1423 (used for all labs except Liberty labs)
- <CICS_APPLID> : CICS1
- <Servlet_JSP_Port> : 1424 (used for Liberty labs)
- <zOS_DNS_Name> : ws31.washington.ibm.com

Results:

USER1.CICSLAB.UTIL

Note: Screen shots are NOT 100% accurate. Follow the text explanations rather than what you see in the screen shot.

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Personal Communications Emulator Tips

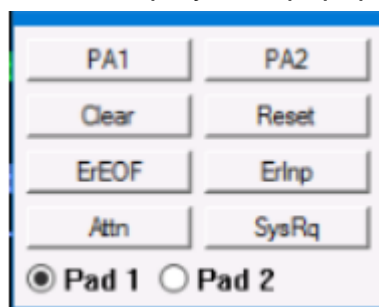
Note: The 3270-terminal sessions for TSO and OMVS screen shots in these exercises are shown in reverse video simply for printing purposes.

There are 3270-emulator keyboard mapping issues encountered when using a web browser to access Windows desktop. As a result, not all keyboard mappings described in this document may not work as intended.

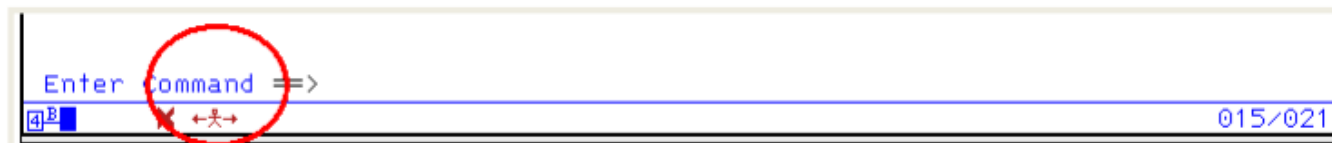
Below is a guide to help you resolve issues if you have inconsistent or non-working 3270 keys.

Any references to the Enter key in non-3270 windows, OMVS terminal session, etc. refers to the key labeled Enter on the keyboard.

- The 3270-emulator used for this workshop (IBM Personal Communication) maps the 3270 *enter* key to the right Ctrl key (see below). If the right Ctrl key does not work, try using the key labeled Enter or Return on your keyboard.
- The 3270 *newline* key has been mapped to the Shift-Enter key sequence.
- The 3270 *clear* key has been mapped to the Cntl-Enter key sequence.
- If all else fails, select *Actions* on the 3270-emulator tool bar and then select the Display *Popup Keypad* option. This displays the popup below where you select various keys.

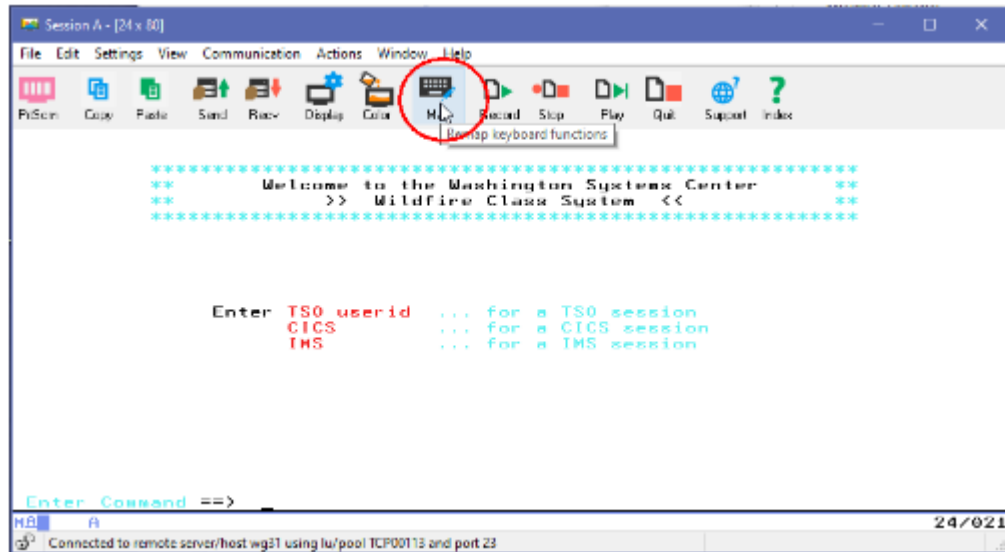


- z/OS Updates Different 3270-terminal emulators will display an icon like the 'Personal Communications' icon below at the bottom of the screen when the keyboard is locked. If this occurs use the left **Ctrl** key to reset or free the keyboard.

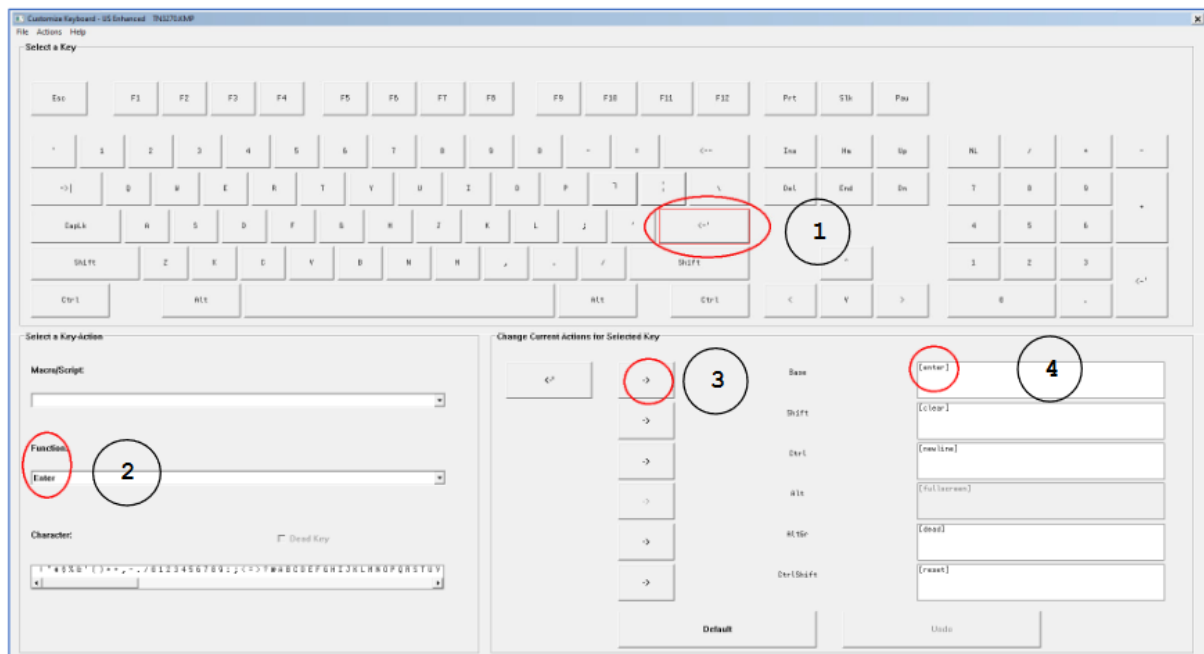


Configuring the Keyboard with Mac keyboards

- To reconfigure the IBM Personal Communications keyboard when using a Mac keyboard, click on *View* on the tool bar and select the Tool Bar option. Next click on the Remap Keyboard functions icon (see below).



- To set the **Return** key to perform the *enter* function, click on the Return (1) key, use the pull down arrow to select *Enter* from the function list menu (2), and then in the *Change Current Actions for Selected Key* section, click on the arrow to the left of *Base* (3) to set the default function of pressing the **Return** key to [*enter*] (refer to the picture below)

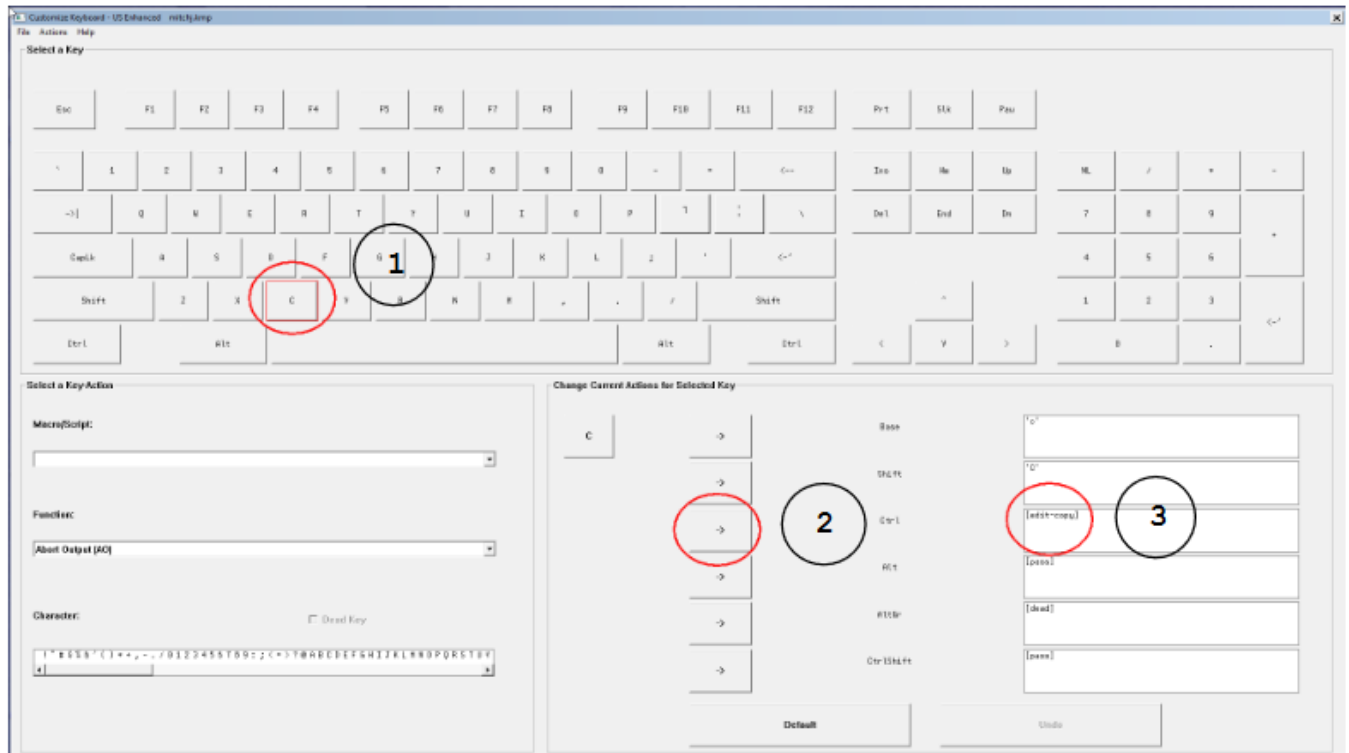


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- To set the **Return** key to perform the *clear* the screen function, click on the **Return** (1) key, use the pull down arrow to select *Clear Screen* from the function list menu (2), and then in the *Change Current Actions* for Selected Key section, click on the arrow to the left of *Shift* (3) to set the default function of pressing the **Shift-Return** key sequence [*clear*].
- To set the **Return** key to perform the *new line* function, click on the **Return** (1) key, use the pull down arrow to select **New Line** from the function list menu (2), and then in the *Change Current Actions* for Selected Key section, click on the arrow to the left of *Ctrl* (3) to set the default function of pressing the **Ctrl-Return key** sequence to move the cursor down a line [*newline*].
- To set the **Return** key to reset a locked keyboard, click on the **Return** (1) key, use the pull down arrow to select **Reset** from the function list menu (2), and then in the *Change Current Actions* for Selected Key section, click on the arrow to the left of *CtrlShift* (3) to set the default function of pressing the **Ctrl-Shift-Return key** sequence to reset or unlock a key board [*reset*].
- When finished, your keyboard actions for the Return key should match the picture above.

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- To set the **Ctrl-C** key sequence to perform the *copy* function, click on the **C** key (1) and then in the *Change Current Actions for Selected Key* section, click on the arrow to the left of *Ctrl* (2) to set the default function of pressing the **Ctrl-C** key sequence to [edit-copy] (3) (refer to the picture below).



- To set the **Ctrl-V** key sequence to perform the *paste* function, click on the **V** key (1) and then in the *Change Current Actions for Selected Key* section, click on the arrow to the left of *Ctrl* (2) to set the default function of pressing the **Ctrl-V** key sequence to [edit-paste] (3) (refer to the picture below).

