

<b>RC890 Information</b>		<b>Category</b> System Information	<b>Product</b> SW8910	
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<b>Package name</b>				
Sales designation: RC891 CU Software				
Sales number: SW8910				
Release: Rel. 2.5				
Which replaces: Rel. 2.4				
<b>Package contents</b>				
Software: 2 diskettes				
- files: s				
md11 .pof dev3270 .pof bsccp .pof				
snasc .pof snalu .pof culani .pof				
bsccirc .com sd1ccirc.com bsc .com				
sd1c .com circ .com xbsccirc.com				
xsdlccir.com xbsc .com xsdlc .com				
config .cst menud1 .cst conv .cst				
conv2 .cst texts .cst comm .cst				
default .mdl dmenu .mdl				
default .txt dansk .txt				
dos .cnv dosa .cnv stdk .cnv				
stdka .cnv english .cnv german .cnv				
germana .cnv swedish .cnv swedisha.cnv				
default .cmn				
edit .855 install .855 catinat .855				
3270 .855 confi .855				
edit .845 install .845 catinat .845				
<b>Documentation:</b> 1 binder - with user guide:				
(supplement as:) SW8900-D				
- manual: RCSL 991 10244				
- edition (update): Aug 85 (0/85)				
- main language: English				

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<p><b>Requirements</b></p> <p>Control units: RC891-05, -10 or -20</p> <p>Software: Co-operative 3270 emulation on the RC891 system and connected terminals requires the following - or newer - releases of terminal software in order to perform correctly:</p> <p style="margin-left: 40px;">RC45/RC855: SW8914(I), rel. 1.4 RC750: SW1530/SW1630, rel. 3.2</p> <p><b>Installation</b></p> <p>Installation is described in the RC890/RC891 Control Unit, User's Guide, section C.</p> <p>Note! If more than one RC891 is connected to RC800 via LAN, they must be configured as different regions (parameter REGION in file COMM.CST), otherwise the RC891 will not work correctly (but stop in ERROR and write a FAULT in the errorlog).</p> <p>Please, do also consider the following notice:</p> <p>If the system does not operate correctly, remember to check the errorlog to see that all modules have been loaded correctly. Symptoms of incorrect loading could be:</p> <ul style="list-style-type: none"> <li>- the 3270 emulator writes "CU disconnect", yet the terminals can be downloaded;</li> <li>- "?????????" is displayed as link-id when the 3270 emulator is loaded.</li> </ul> <p>Customization is described in the RC890/RC891 Control Unit, User's Guide, section B; on page 5/10 follows a brief check-list on essential parameters of some of the customization files.</p> <p><b>Description</b></p> <p>The SW8910 software enables the RC891 Control unit to emulate an IBM 3274 Model 51-C.</p> <p>Support of SMA/SDLC V.24/X.21 and BSC V.24/X.21, and in dual host configurations (RC891 model 20) any combination of these line protocols.</p>		

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<p><b>Changes from previous release</b></p> <p>General - A connection to RC8000 only serving as printer host (DEV3270) can now be established: state the host name starting with a question mark (?) and the name will not appear in the host selection menu on the terminals.</p> <ul style="list-style-type: none"> <li>- Chained Write Command, or SCS Write Command, to a printer could previously cause a fault 10011 preceded by a trace 508. This has been corrected.</li> <li>- An endless loop could previously appear if a terminal was connected to a host link and at the same time a new host selection was initiated on the terminal. This has been corrected.</li> </ul> <p>(LAN)</p> <ul style="list-style-type: none"> <li>- The RC891 LAN function could previously stop because of component malfunction (deadlock in I82586 chip). This has been corrected.</li> <li>- Previously, the deselection of a connection could cause either a fault in RCLLC or a state in which it was not possible to reselect the connection unless the RC891 was restarted. This has been corrected.</li> </ul> <p>Local Host (CULANI)</p> <ul style="list-style-type: none"> <li>- Corrections have been made, relating to (1:) local host print, which could hang, and (2:) removal of local host application, which could cause problems.</li> <li>- When 'primo' uses a printer on a CU connected to LAN with several CUs communicating with RC8000, one of the other CUs can enter a state where it continuously sends status messages to RC8000. This has been corrected.</li> </ul> <p>BSC</p> <ul style="list-style-type: none"> <li>- X.21 only: It is now possible to receive a call from an RC3803 located in another country.</li> <li>- When a terminal was disconnected, and later on connected again, the unavailable/available status of an attached printer was not always correctly conveyed to the host, causing the printing to stop (hang). This has been corrected.</li> </ul> <p>SNA</p> <ul style="list-style-type: none"> <li>- Test mode, SDLC statistics: The counter for Retransmitted I-frames has been corrected. Previously the count was incorrect, the number always being shown much too big.</li> <li>- USM sequence in the 3270 data stream is now allowed. The USM sequence is used in BSC for reservation of printers - previously, when changing the link protocol from BSC to SNA without removing the USM sequence from the 3270 data stream, SNA stopped with a fault.</li> </ul>			

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<p>X.21 - Timers T3A and T4 have been changed from 2 to 6 sec. in accordance with the X.21 Recommendation 1984.</p> <p>Soft Devices - Up to 128 soft devices may now be configured.</p> <p><b>Known errors and deficiencies</b></p> <p>BSC - cabling error, i.e. if a V.24 cable, or no cable, is mounted when an X.21 cable is expected, fails to produce the correct message ("cabling error") in first time operations. Instead, the message "waiting for menu" is shown.</p> <p><b>Additions and corrections to the documentation</b></p> <p>Please, make the following additions and corrections to the user guide (RCSL 991 10244):</p> <ol style="list-style-type: none"> <li>1) In section C, add the description (pages 7 and 8) of the RC890 CST-File Install Program.</li> <li>2) In section G, add the description (pages 9 and 10) of the RC45/RC855 IBM 3270 Emulator, Default host connection.</li> <li>3) Make notes in accordance with 1) and 2) above in the table of contents.</li> <li>4) Make corrections in section D, page D.2-17, 6th paragraph, last line:                 reads: 140+n ... 140..155                correct to: 130+n ... 130..145</li> <li>5) Also in section D, make notes regarding changes in default settings of the parameters:   BSCDUP - default is half duplex (= 0); page D.2-13  SDLCDUP - default is half duplex (= 0); page D.2-16  PMODE - default is shared mode (= 2); page D.2-18</li> </ol>		

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<u><b>Customization checklist</b></u>			
<b>CONFIG.CST</b> - configuration file for setting of configuration switch(es) in accordance with the communication wanted.			
<hr/>			
Add as appropriate:			
<input type="checkbox"/> 3270xx	- for protocol and single/dual host feature		
<input type="checkbox"/> CULANI	- for support of local host on LAN		
<b>COMM.CST</b> - file for customization of remote host link(s) in accordance with the communication equipment (V.24 modem / X.21 DCE) and the generation of the link(s) at host computer site. (Default values in DEFAULT.CMM).			
<hr/>			
Check as appropriate (and change if necessary):			
<u><b>BSC</b></u>			
<input type="checkbox"/> BSCKIND	- V.24 / X.21		
<u><b>V.24</b></u>			
<input type="checkbox"/> BSCCU	- CU address		
<input type="checkbox"/> BSCDUP	- Half / Full duplex		
<u><b>X.21</b></u>			
<input type="checkbox"/> BSCXNO	- Host (RC3803) X.21 number		
<u><b>SNA/SDLC</b></u>			
<input type="checkbox"/> SDLCCKIND	- V.24 / X.21		
<input type="checkbox"/> SDLCADDR	- SDLC address		
<input type="checkbox"/> SDLCNRZI	- NRZI = yes / no		
<input type="checkbox"/> TERMID	- Terminal identification		
<u><b>V.24</b></u>			
<input type="checkbox"/> SDLCDUP	- Half / Full duplex		
<input type="checkbox"/> MPOINT	- Multi-point / Point-to-point		
<u><b>X.21</b></u>			
<input type="checkbox"/> SDLCHXNO	- Host X.21 number		
<input type="checkbox"/> SDLCXNO	- CU X.21 number		

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<p><u>RC890 CST-File Install Program</u></p> <p>When installing a new release of the CU software, the customization files (configuration and parameter files) can be copied from the old CU diskette to the new one by means of this program (file CSTINST). Most often this will be easier than creating the files from scratch on the new CU diskette.</p> <p>The CST-File Install Program can handle up to 10 files in one copy operation, providing the total size of the files does not exceed 40 Kbytes.</p> <p>Having loaded the program, the function to be performed is selected from the displayed menu:</p> <p style="text-align: center;">RC890 CST-File Install Program</p> <p style="text-align: center;">Select function:</p> <p style="text-align: center;">1 Read CST-Files 2 Write CST-Files</p> <p>Whenever the "Select function:" text is displayed, the program waits for a function to be selected by pressing the appropriate numeric key (1 or 2). The program can be left at any time by pressing the keys CTRL+CLEAR, whereafter the terminal will be reloaded, typically by way of the download menu.</p> <p>The functions perform as follows:</p> <p><u>1 Read CST-Files</u></p> <p>Reads the customization files (files *.CST) on the diskette currently mounted in the CU; maximum 10 files of total size 40 Kbytes. The program displays the name of the file it is currently reading and maintains a list of the files read so far.</p>		

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<p><u>2 Write CST-File</u></p> <p>Files read are written on the diskette currently mounted in the CU. Note that the write-function does not ask for any information, but immediately on selection it starts writing on the diskette. Nothing is changed in the buffer of the read files due to writing, so they may be copied to as many diskettes as desired merely by exchanging diskettes and re-selecting the write-function.</p> <p>If an error occurs, appropriate self-explaining messages will be displayed. Pressing any key, stops the operation and the program returns with the initial menu. If the error occurred during a read operation, the list of files read is updated to comprise only those files which have been read before the malfunction.</p>		



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### G. Miscellaneous

In this section you find information relating to operations of the CU in conjunction with specific terminal programs.

#### G.1 RC45/RC855 IBM 3270 Emulator (SW8914/SW8914I)

Information in this subsection is valid as of release 1.4 of the SW8914/SW8914I software package. For information in detail, see documentation coming with the software package.

#### Default host connection

As described in section B and section D.2, Download Menus, in this manual it is possible to pass parameters to the 3270 emulator, amongst others to skip the host link menu in favour of getting the host link established by default.

With the mentioned release of the RC45/RC855 IBM 3270 Emulator, the display device, DDN, and the alternative display device, ADN, can be attached to two different host links; furthermore, the selection of other host links (i.e. capability of getting the host link menu displayed) can be suppressed, if so desired.

The emulator considers the parameter written in the Terminal Program specification, TPRG, in the download menu customization file as up to four parameters separated by the ? (question mark) character, viz:

(,param)  
of TPRG      <=> <param1>?<param2>?<param3>?<param4>

- meaning as follows:

<param1> - link name to which DDN is to be attached by default. If not present, the device will not be

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connected to a host link. (For link name conventions, see "lname" in the BSCID or SNAID specifications in section D.2).

<param2> - controls the capability of displaying a host link menu on DDN. Values can be 0 or 1.

1: (Default value). Host link menu displayable, i.e. change of host link possible.

0: Host link menu not displayable, i.e. change of host link not possible.

<param3> - same as <param1> above, but effective on ADN.

<param4> - same as <param2> above, but effective on ADN.

**Examples:**

- 1) TPRG,1=3270,IBM 3270 Emulator,SNA link 1?1?BSC link 1?0

When the emulator is downloaded in the terminal the display device is attached to the host link with the name "SNA link 1" and it is possible to change host. The alternative display device is attached to the host link with the name "BSC link 1" and it is not possible to change host link.

- 2) TPRG,1=3270,IBM 3270 Emulator,??BSC link 1?1

In this case the display device will show the host link menu. The alternative display device is attached to the host link with the name "BSC link 1" and it is possible to change host link.