

**CITY MULTI** Equipment Start Up Process

# **Purpose**

The CITY MULTI Equipment Start up Process is a guideline to assist in conducting the CITY MULTI system start up. If done properly it can be used in combination with the Extended Warranty Process to gather required information for that procedure. Generally the R2 series will take more time than the Y series, so schedule time accordingly. A good rule of thumb is to reserve one day for every 25 indoor units.

# **CITY MULTI Checklist**

The installing contractor is required to complete all sections of CITY MULTI Pre-start up Checklist prior to system start up.

Ensure the following:

- 1) Appropriate line voltage to all system components.
- 2) Control wiring is terminated correctly and proper voltage is present.
- 3) All components are correctly addressed. Port assignments are necessary for R2 systems.
- 4) All field installed components in the refrigerant system must be pressure tested and triple evacuated.
- 5) All additional charge has been weighed into the system and service valves opened.
- 6) Line voltage is applied to outdoor units 12~24 hours prior to start up.
- 7) An "as built" Diamond System Builder (DSB) file depicting correct addresses, port connections, line lengths and sizes is required prior to the scheduled start up.
- 8) Where applicable, the unit must be installed above snowline.

# **Procedure**

- 1) General Inspection
  - a) Inspect all system components paying close attention to wiring, refrigerant lines and drains. Be mindful of correct line sizing and condensate lifts.
  - b) Be aware that R2 units require the correct twinning kits.
  - c) **Know** the minimum/maximum distance required for Y series twinning kits to ensure piping is correct.
  - d) The **only** acceptable way for twinning outdoor units are the examples given in the installation instructions.
- 2) <u>Equipment Power</u>

- a) If unsure at what point control wiring was connected to the outdoor unit or units, deenergize the outdoor unit or units for at least 10 minutes.
- b) Note the outdoor unit or units LED display; not all error codes will display here, but the ones that do will not allow the unit to operate. These errors will have to be corrected before starting the system.
- c) Be sure line voltage is present for all indoor components.
- d) Always have available the correct Outdoor Technical Service Manual for troubleshooting error codes.

### 3) Connecting Options for CMS-MNG-E

- a) Connect the MN Converter to any communication terminal; TB3 on the outdoor unit, TB2 on the Branch Controller (BC) or TB5 on the indoor unit.
- b) The MN Converter can be connected at the M-Net terminal block (terminals A and B) of the Central Controller. Note: The Central Controller can also be accessed at the same time, via a crossover cable, for Initial Settings, including grouping, date and time and basic information, etc...
- 4) Starting Maintenance Tool
  - a) Do not open the Maintenance Tool program prior to connecting (the MN Converter Interface) to the City Multi system and your computer via the USB connection.
  - b) Open Maintenance Tool and select units of measurement.
  - c) Select Monitor Mode MN Converter.
  - d) Select Local Connection.
  - e) Select connection port. This will be a drop down box, after drivers are installed; version 5.07 and later will show the com port and CMS-MNG (See Figure 1).

Figure 1							
Recycle Bin Dry MULTI Design Too							
	ielect Monitor Mode						
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### 5) Maintenance Tool Search

- a) There are two methods for searching. Select **Auto** for any startup. Manual can be used when all addresses are known (See Figure 2).
- b) All addresses will be shown in the address grid. If addresses are missing locate the missing addresses and correct. Missing addresses can be caused by duplicate addressing or communication wire connection problems. If addresses are changed, cycle power to the outdoor unit/s for 10 minutes.
- c) Be mindful of the address range for all components (See Figure 22).

Figure 2		
Maintenance Tool (Ver 5.07) - MN Converter		
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## 6) <u>Maintenance Tool Connected Information (R2 only)</u>

- a) For R2 systems Connected Information is critical for checking correct port assignments after the system has started and exited Initial Mode.
- b) Connected Info can be viewed from the address grid screen. After the search is complete place the cursor over the OC that you wish to view, the bottom right side of the screen will display Connected Information. For R2 systems the port assigned (reflects the position of the rotary switch SW14 on the indoor control board) will also be displayed (See Figure 3).
- c) For R2 systems Port assignments can also be viewed from the Monitor screen in the IC information area. This is useful when verifying Port assignments (See Figure 13).

Figu	re 3																		
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### 7) System Information

- a) System Information must be saved and submitted with monitored run time. Be sure all information is correct. For Y series, once all addresses are correct the information can be saved by clicking on File at the top right of the address grid screen, then click, Save System Info (See Figure 4). The information will save and store in exactly the same manner as run time information and both will be in Offline Analyze. Offline Analyze will be one of the options when you first open Maintenance Tool on the Select Monitor Mode screen (See Figure 15).
- b) For R2 systems, wait until all port assignments are verified before saving system information.

Figu	re 4																
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### 8) Starting The CITY MULTI System

- a) At this point all addresses should be correct and accounted for. All errors up to this point should have been corrected.
- b) To bring up the Monitor screen from the grid screen click the **Monitor** tab at the top of the screen, all other tabs will fade then click the OC you wish to monitor. Up to three systems can be monitored simultaneously (See Figure 5).
- c) Once this is done in the correct order, a **Confirm** tab will appear at the bottom of the screen. Click on the tab to move to the Monitor screen (See Figure 5).
- d) Note the pressure sensors 63HS and 63LS on the outdoor units, PS1and PS3 in the BC (R2 only). They should all read the same or very close.
- e) To start the system, click the **Drive Operation** tab. This tab will allow control of either indoor unit (IC) or the Branch Controller (BC). Choose **IC** this will bring up the Operation screen. From here you can give individual commands or batch commands (See Figure 6).
- f) The Operation screen will populate with the lowest addressed IC on the system you are monitoring. To change addresses simply click **Change** at the top of the screen and move to the next address (See Figures 7 & 8).
- g) To conduct a batch command select **All** at the top of the Operation screen. Be mindful if there are multiple refrigeration circuits (outdoor units) daisy chained at TB7 all the IC's seen on the address grid will start (See Figures 9 & 10).
- h) Selecting Test Run Heating or Cooling will allow the system to run for two hours in whatever mode selected. Both set point and return air will be ignored during this period.
- i) The outdoor unit or units will start in Initial mode. Wait until Ordinary mode to judge the system's performance. Keep in mind the data required the Extended Warranty Report must reflect all indoors operating in Test Run heat or cool and the outdoor unit or units in Ordinary mode.
- j) For Y and S series only, if the system is judged to be operating correctly, the start up process is complete. Information on saving and exporting data will be in Section 10.

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Figure 6	
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#### Figure 7 Operation Status Monitor (Trend) Operation Return Time-Searching Prin Help RGBBZ IC/LC Adr 001 Change Attribute IC OC PURY-P96TJMU-A Adres:051 Individual Ctrl Mode Ope Mo All OC Adr Attribute Stop Stop 63HS1 63LS TH3 203.4 203.4 72. ON/OFF Stop Operation Test-run Tc Te THHS 70.7 70.7 75.7 Cool Setback Ventilation Mode Fan Dry Heat Auto DEMAND DEMAND 46°F 🗄 OFF OFF Temp.Set OS PURY-P72TJMU-A Adres:052 Ctrl Mode Ope Mo Stop Stop 🗆 Fan High Mid.H Mid.L Low 63HS1 63LS TH3 203.4 203.4 72.3 Lossnay Damper By-pass Tc Te THHS 70.7 70.7 74.5 74.5 Auto Operation Humidifier DEMAND DEMANE OFF OFF LEV Open 41 Fi× FixRelease BC(main) Adres:053 Ver7.14 BC Sig OC Sig S Stop Enable PS1 PS3 dPHM Transmission Filter reset Close 2/13/2013 22:56:12



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### 9) Verifying BC Port Assignments R2 Only

- a) Have System Information present for reference while verifying port assignments.
- b) Be sure system operation mode is Ordinary, and that all the indoor units are in Test Run. This allows ports assignments to be verified while not being concerned with indoor and outdoor units stopping.
- c) In cooling all TH2 temperatures should average between 35 ~ 50 degrees.
- d) In heating mode all TH3 temperatures should be above 125 degrees.
- e) To manually control the BC, click **Drive Operations** at the top of the Monitor screen then select BC Operation (See Figure 6).
- f) When the BC operation screen populates you will see across the top  $1 \sim 9$  and  $A \sim 0$ , this represents a 16 port BC. Each port will have A, B, and C solenoids. These are represented in a vertical row of blocks beneath each port. The blocks will have a 0 (0 = closed) or 1 (1 = open) in each. Here you can command the solenoids open or closed by clicking the block. The fourth vertical block allows you to Fix or Cancel the command by clicking this block. To send the command select **Transmission** on the center left side of the screen (See Figures 11 & 12).
- g) Close the ports for the indoor address you are checking (A & C for cooling, B for heating) then close the BC operation screen. Now check for temperature change on the indoor unit, TH2 if in cooling mode, TH3 if in heating mode (See Figures 12 &13).
- h) Be mindful of all indoor units; if the port assignment is incorrect the temperature change can be seen on another indoor unit. If this occurs, note the indoor unit address and port assignment and continue verifying ports. All corrections can then be made at the same time when verification is complete.
- i) After all ports have been verified or corrected, system information can be saved for the Warranty Report.

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004 24 4 4 723 403 597 - 133 207 670 100 Test Cooling ON Cool ON -	
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### 10) Saving and Exporting Data

- a) When viewing the Monitor screen, Maintenance Tool is recording the data at approximately one minute intervals. When exiting the Monitor screen a Confirm Data Save box will appear asking if you would like to save the data. Here you can name the data and write comments (See Figure 14).
- b) When submitting data for the Extended Warranty Process ensure all files submitted for a single system reflect the same name. This will avoid confusion when information is received from large sites with multiple systems.
- c) The data is saved in Offline Analyze. Offline Analyze is selected from the **Select Monitor Mode** screen (See Figure 15).
- d) Here you may view the saved data simply by highlighting the data and clicking on it. (See Figure 16).
- e) To export, highlight the data then click export. Maintenance Tool will zip the data. The zipped file must be imported into Maintenance Tool for viewing (See Figure 17).

Figure 1	4
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OSPURY-P72TMUL-Addres/052 Ver3/92.01         Chrl Model       Ope Mode       Fos       FAN       Q/C       Q/H       Vdc       Ido       Iu       Iw       AL         Stop       Stop       0       0       0       291.0       00       00       0       2         63H51       63LS       TH3       TH4       TH5       TH7       FAN-Ver       Save(%)       Ope Status       Attribute         2631       1351       93.4       156.4       51.1       141.8       80.2       2.05       100       Abnormal Press       Rise       OS1         To       Te       THHS       2154.4       SV1a       SV2       SV4b       SV4b       SV5b       SV5c       SV9       AK         87.3       46.9       105.6       0       1       0       Confirm Data Swe       Are you sure you want to save?       DetMAND       DEMAND2       NIGHT       NIGHT       NIGHT       Night Save       Are you sure you want to save?       Do 0       0       0       0       0       0       0       0       0       0       0       1       1       1       0       0       0       0       0       0       0       0       0 </td <td>-</td> <td></td> <td>*</td>	-																				*				
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OFF         OFF         OFF         OFF         OFF           BC(main)         Adrex033         Ver7.14         Comment:         Customer :         F         0	DEMAND	DEMAN	D2 NI	GHT   1	VIGHT2	2 S A	hre you	sure you wa	ant to s	save?															
BC(main)       Adrex033       Ver/14         BC Sig       OC Sig       SC1       SH2       SO6       SVN         Stop       Stand by       0.2       4.3       17.6       0         PS1       PS3       dPHM       PT1       PT3       T1         260.3       260.3       0.0       86.5       86.5       86.9         It         Model G_No       B_No       TH1       TH2       TH8       TH4       Save       Not Save       0       0       1	OFF	OFF OFF OFF OFF																							
Comment:         Comment:         Customer:         Save       Not Save         Not Save         Save       Not Save         Save       Not Save         Save       Not Save         Save       Not Save         Save       Not Save         Not Save         Save       Not Save         Not Save       O/F       Mode State IC S Fan         OO1       12       1       T         Model G_No B_No TH1 TH2 TH8 TH4 SH/SC Li       TO Save O/F Mode State IC S Fan         OO1       12       1       T         Model G_No B_No TH1 TH2 TH8 TH4 SH/SC Li       TO Save O/F Mode State IC S Fan         OO1       12       1       T         OO2       2       7       4       4       4       4       4 <th col<="" td=""><td>,</td><td colspan="12">Data Name : OM_20130213_172412</td></th>	<td>,</td> <td colspan="12">Data Name : OM_20130213_172412</td>	,	Data Name : OM_20130213_172412																						
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rc           Model         G_No         B_No         TH1         TH2         TH3         TH4         SH/SC         Li         TO         Save         O/F         Mode         State         ICS         Fan	260.3 260	3 0.0	) 86.	5 86.	5 86.9	9			-							] ' '					E				
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Figure 15					
Recycle Bin CTTY MULTI Design Too					
A 14	Select Monitor Mode				
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Monitor Data	Monitor Date	Last Updated	Records	Comment					
OM_20130213_093930	2/13/2013 09:18> 09:38	2/13/2013 09:39:33	18						
MN20130131_135025	1/31/2013 13:50> 14:32	1/31/2013 14:37:10	42	Ticket # 121291 Test-run heat #9					
MN20130131_094819	1/31/2013 09:48> 13:35	1/31/2013 13:38:36	213	MEA # 121291 Ticket / # 9 running					
mooreplace3rd floor52IMPO	1/31/2013 09:45> 10:35	1/31/2013 10:39:22	50						
OM_20130130_114856	1/30/2013 10:55> 11:47	1/30/2013 11:49:08	52	DM Firehouse BC test					
cranberry saftey training	1/27/2013 09:22> 14:57	1/27/2013 14:59:29	336	pwfy 2135					
1857-52_20130123_091037	1/24/2013 09:11> 14:40	1/24/2013 14:41:31	330	end 01242013 at 1441					
OM_20130124_114608RIS	1/24/2013 09:51> 11:44	1/24/2013 11:46:34	101	RIS after LEV3 replacement					
MoorePloace3rdFloor	1/23/2013 10:58> 11:44	1/23/2013 11:46:30	46	Unit80 and 81					
OM_20130123_102046	1/23/2013 09:21> 10:19	1/23/2013 10:21:08	58	DM firehouse					
OM_20130123_092033	1/23/2013 08:12> 09:19	1/23/2013 09:20:48	68	DM firestation					
OM_20130121_175135	1/21/2013 16:24> 17:50	1/21/2013 17:51:51	85	DM Firehouse Final Log					
OM_20130117_174221	1/17/2013 16:44> 17:41	1/17/2013 17:42:23	54						
OM_20130115_125822RIS 14	1/15/2013 07:11> 12:56	1/15/2013 12:58:52	346	Elec Ht on Rm6					
OM_20130115_074323	1/14/2013 15:21> 07:42	1/15/2013 07:43:53	975	119989					
MN20130114_105436_001	1/1/2001 00:00> 13:24(1/1	1/14/2013 13:25:15	146	MEA-119989					
OM_20130110_055608RIS 1	1/9/2013 13:24> 05:54	1/10/2013 05:56:32	991						
Latitude 39 good	1/8/2013 14:28> 15:24	1/8/2013 15:25:59	57						
1857-52_20130103_204724	12/30/1899 00:00> 20:47(1	1/7/2013 10:51:59	1441	end 01072013 at 1052					
1857-52_20130103_204724	1/4/2013 20:48> 20:47	1/7/2013 10:51:59	1440	end 01072013 at 1052					
1857-52_20130103_204724	1/6/2013 20:48> 10:51	1/7/2013 10:51:59	844	end 01072013 at 1052					
OM_20130104_092039 Ranso	1/3/2013 16:55> 09:19	1/4/2013 09:21:40	985						
OM_20130104_073846 Ranso	1/3/2013 18:36> 07:37	1/4/2013 07:39:24	782						
1857-52_20121221_100440	1/2/2013 10:05> 10:04	1/3/2013 20:46:41	1441	end 132013 at 2047					
1857-52_20121221_100440	1/3/2013 10:05> 20:46	1/3/2013 20:46:41	641	end 132013 at 2047					
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Figure	17
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Monitor System	nInfo Pre-Error								
Monitor Data	Monitor Date	Last Updated	Records	Comment		Â			
UM_20130213_093930	2/13/2013 09:18> 09:38	2/13/2013 09:39:33	18						
MN20130131_135025	1/31/2013 13:50> 14:32	1/31/2013 14:37:10	42 110	(et # 121291 Test-run heat #9					
MIN20130131_094819	1/31/2013 09:48> 13:35	1/31/2013 13:38:36	213 MEA	4 # 121291 Ticket / # 9 running		E			
mooreplaceard hoorszivir-U	1/31/2013 09:45 10:35	1/00/00 Export			Bro	wse For Folder			
UM_20130130_114856	1/30/2013 10:55> 11:47	1/30/20							
cranberry saftey training	1/2//2013 09:22> 14:5/	1/2//20 Sour	ce data : MN2	0130213_091800		elect destination folder			
1857-52,20130123,091037,	1/24/2013 09:11> 14:40	T/24/20 Record	number: 18						
UM_20130124_114608RtS	1/24/2013 09:51> 11:44	1/24/20			-   -	🧮 Desktop	<u>^</u>		
ON CONTRACTOR 1000	1/23/2013 10:58 11:44	1/23/20 Destina	tion folder			Eibraries			
CM 20130123_102046	1/23/2013 09:21> 10:19	1/23/20 C:¥User	s¥bxs1016¥Doci	uments¥M-Tool Data Browse		🛯 鷆 Sparks, Buford			
CM_20130123_092033	1/23/2013 08:12 / 09:19	1/23/20 1/01/00	tion file name			🛛 🍌 AppData			
OM_20130121_175135	1/27/2013 16:24> 17:50	1/17/20 OM 201	0213 093930			🚡 Contacts			
OM_20130117_174221	1/15/2013 07:11> 12:56	1/15/201				4 膧 Desktop			
OM_20130115_123822Rd3 14	1/14/2019 15:21> 12:50	1/15/20		Run Close		Þ 퉲 5.05			
MN20120110114_105426_001	1/1/2010 10:20> 19:24(1/1	1/14/201		- Truit Close		⊳ 퉲 5.06b			
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1857-52 20130103 204724	12/30/1899.00:00> 20:47(1	1/7/2013 10:51 59	1441 end	01072013 at 1052					
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1857-52 20130103 204724	1/6/2013 20:48> 10:51	1/7/2013 10:51:59	844 end	01072013 at 1052					
OM_20130104_092039 Ranso	1/3/2013 16:55> 09:19	1/4/2013 09:21:40	985						
OM_20130104_073846 Ranso	1/3/2013 18:36> 07:37	1/4/2013 07:39:24	782						
1857-52_20121221_100440	1/2/2013 10:05> 10:04	1/3/2013 20:46:41	1441 end	132013 at 2047					
1857-52_20121221_100440	1/3/2013 10:05> 20:46	1/3/2013 20:46:41	641 end	132013 at 2047		-			
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### 11) Setting Up System Auto Restart Function

Auto restart is a function of the indoor control board. With the introduction of software 10.02, indoor unit function settings can be changed. This gives the indoor unit the ability to restart after power failure no matter how power is reapplied. To accomplish this perform the following steps.

- a) From the address grid screen select an indoor unit address then **Optional Set** (See Figure 18).
- b) When the Optional Setting screen populates select **IC Function-Item Setting** (See Figure 19).
- c) The **IC Function-Item Setting Box** will populate with the indoor address selected from the previous screen (See Figure 20).
- d) Change the **Item No. 68** and the **Item Value to 2** and select **Set**. This will send the new function to the selected address board.

Figu	re 18	3															
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Self-Diag	nosis Monitoring	OC Fur	ction Setting						
0	peration	DipS	DipSW Monitor						
Sendir	ng Commar IC Function-Item Set	ting	or fram Satting		1				
Monitoring	of Pre-erro Address	007	Change Attribu	te IC					
Date/	Time Settir	Item No.	Item Value						
Data	Sendir	00	2						
Sending Data									
Receiving Data	Monitor	Set	]	Return	-				
				.:1					
						Return			

### 2-4-2. Rule of setting address

	Unit	Address setting	Example	Note				
	Indoor unit	01~50		Use the most recent address within the same group of indoor units. Make the indoor units address connected to the BC controller (Sub) larger than the indoor units address connected to the BC controller (Main). If applicable, set the sub BC controllers in an PURY system in the following order: (1) Indoor unit to be connected to the BC controller (Main) (2) Indoor unit to be connected to the BC controller (No.1 Sub) (3) Indoor unit to be connected to the BC controller (No.2 Sub) Set the address so that (1)<(2)<(3)				
	Outdoor unit	51 ~ 99, 100 (Note1)		The smallest address of indoor unit in same refrigerant system + 50 Assign sequential address numbers to the outdoor units in one refrigerant circuit system. OC and OS are automatically detected. (Note 2) * Please reset one of them to an address between 51 and 99 when two addresses overlap. * The address automatically becomes "100" if it is set as "01~ 50"				
	BC controller (Main)	52 ~ 99, 100		The address of outdoor unit + 1 *Please reset one of them to an address between 51 and 99 when two addresses overlap. *The address automatically becomes "100" if it is set as "01~ 50"				
	BC controller (Sub)	52 ~ 99, 100		Lowest address within the indoor units connected to the BC controller (Sub) plus 50.				
e controller	ME, LOSSNAY Remote controller (Main)	101 ~ 150	$\begin{array}{c} 1 \\ \text{Fixed} \end{array} \begin{array}{c} & & & \\ & & \\ & & \\ & & \\ & & \\ & 10 \end{array} \begin{array}{c} & & \\ &$	The smallest address of indoor unit in the group + 100 *The place of "100" is fixed to "1"				
Local remot	ME, LOSSNAY Remote controller (Sub)	151 ~ 199, 200	$\underset{Fixed}{1} \qquad \overbrace{}^{\mathfrak{g}} \overbrace{}^{\mathfrak{g}} \overbrace{}^{\mathfrak{g}} \phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	The address of main remote controller + 50 *The address automatically becomes "200" if it is set as "00"				
	ON/OFF remote controller	000, 201 ~ 250	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	The smallest group No. to be managed + 200 * The smallest group No. to be managed is changeable.				
oller	AG-150A GB-50ADA GB-24A	000, 201 ~ 250	0 0 0					
tem contr	PAC-YG50ECA	000, 201 ~ 250	0 0 0	*Settings are made on the initial screen of AG-150A.				
Sys	BAC-HD150	000, 201 ~ 250	0 0 0	*Settings are made with setting tool of BM ADAPTER.				
LMAP03U		201~250	2 Fixed 10					

Note1: To set the address to "100", set it to "50" Note2: Outdoor units OC and OS in one refrigerant circuit system are automatically detected. OC and OS are ranked in descending order of capacity. If units are the same capacity, they are ranked in ascending order of their address.