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* * CORVUS SYSTEMS (TM)
* * -----

MULTIPLE SERVER
UPDATE GUIDE

**MULTIPLE SERVER
UPDATE GUIDE**

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Corvus Systems, Inc.
2100 Corvus Drive
San Jose, CA. 95124

Telephone: (408) 559-7000
TELEX: 278976

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**HOW TO USE
THIS GUIDE**

This guide explains how to update an existing Omninet (TM) local area network using Constellation II software to accept more than one disk server and disk system or OmniDrive (TM) mass storage system.

Adding another disk server and disk system or OmniDrive means having multiple servers on the network. Both systems have disk servers: the disk system needs an external disk server to communicate on the network and OmniDrive has its server built in.

Throughout this guide the term server refers to either the combination of a disk server and disk system or an OmniDrive.

Adding multiple servers to a network with one computer type requires checking the Omninet address, setting the bias switch and merging user tables. Updating a network with more than one computer type requires the above procedures plus matching the boot files. Adding a new computer type as well as additional servers involves all the above procedures, but matching the boot files may require several extra steps.

First finish the system generation guide for the particular computer and operating system being used, then turn to this guide.

Start at the section "Setting the Switches" to check the Omninet addresses and set the bias switches properly.

All users will go to the section "Merging the User Tables" to create matching user tables. The tables of users in the CORVUS volumes on all servers on the network must be identical for users to boot.

Users adding a new server to a network with utility servers or more than one computer type also will go to the section "Updating the Boot Files." Each utility server or computer

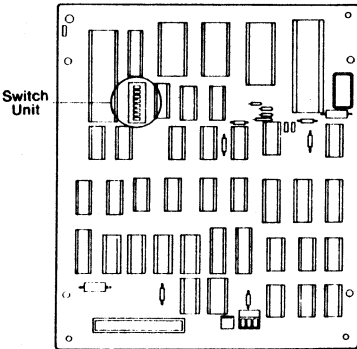
type, with several exceptions, has its own boot file in the CORVUS volume. The types of boot files in the CORVUS volumes on all servers on the network must be identical.

SETTING THE SWITCHES

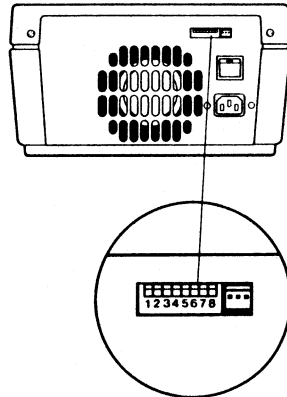
Before connecting the new server to the network, make sure all servers have unique addresses and their bias switches are set properly. The first server on the network must have the bias on, and all other servers must have the bias off. Follow the steps below to check the addresses and set the bias properly.

1. Locate the switches on the disk server or OmniDrive.

Remove the cover of the disk server to reveal the switches. For instructions, see the installation guide used to set up the disk server. The OmniDrive switches are visible on the back of the drive.



Disk Server
Circuit Board



OmniDrive Back Panel

2. Check the Omnet address.

The first six switches are used for the Omnet address. Switches 7 and 8 are not used for the address. The first server on the network may have been set to address 0, but additional servers must have their own addresses.

Make sure each server has a unique address. For a disk server, use the chart labeled "Disk Server Addresses and Switch Settings." For an OmniDrive, use the chart labeled "OmniDrive Addresses and Switch Settings." Be sure to use the right chart.

Address	1	2	3	4	5	6	Address	1	2	3	4	5	6
0	1	1	1	1	1	1	32	1	1	1	1	1	1
1	1	1	1	1	1	0	33	1	1	1	1	1	0
2	1	1	1	1	0	1	34	1	1	1	1	0	1
3	1	1	1	0	1	1	35	1	1	1	0	1	0
4	1	1	0	1	1	1	36	1	1	0	1	1	1
5	1	0	1	1	1	1	37	1	0	1	1	1	1
6	1	0	1	0	1	1	38	1	0	1	0	1	1
7	1	0	0	1	1	1	39	1	0	0	1	1	1
8	1	0	0	0	1	1	40	1	0	0	0	1	1
9	1	0	0	0	0	1	41	1	0	0	0	0	1
10	1	0	0	0	0	0	42	1	0	0	0	0	0
11	0	1	1	1	1	1	43	0	1	1	1	1	1
12	0	1	1	1	1	0	44	0	1	1	1	1	0
13	0	1	1	1	0	1	45	0	1	1	1	0	1
14	0	1	1	0	1	1	46	0	1	1	0	1	0
15	0	1	0	1	1	1	47	0	1	0	1	1	1
16	0	1	0	1	0	1	48	0	1	0	0	1	1
17	0	1	0	0	1	1	49	0	1	0	0	0	1
18	0	1	0	0	0	1	50	0	1	0	0	0	0
19	0	0	1	1	1	1	51	0	0	1	1	1	1
20	0	0	1	1	1	0	52	0	0	1	1	1	0
21	0	0	1	1	0	1	53	0	0	1	1	0	1
22	0	0	1	0	1	1	54	0	0	1	0	1	1
23	0	0	1	0	0	1	55	0	0	1	0	0	1
24	0	0	0	1	1	1	56	0	0	0	1	1	1
25	0	0	0	1	1	0	57	0	0	0	1	1	0
26	0	0	0	1	0	1	58	0	0	0	0	1	1
27	0	0	0	0	1	1	59	0	0	0	0	0	1
28	0	0	0	0	0	1	60	0	0	0	0	0	0
29	0	0	0	0	0	0	61	0	0	0	0	0	0
30	0	0	0	0	0	0	62	0	0	0	0	0	0
31	0	0	0	0	0	0	63	0	0	0	0	0	0
Address	1	2	3	4	5	6	Address	1	2	3	4	5	6
Switch Setting							Switch Setting						

1 - on
- off

Disk Server Addresses and Switch Settings

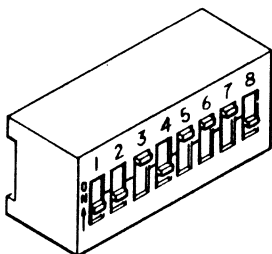
Address	1	2	3	4	5	6	Address	1	2	3	4	5	6
	Switch Setting							Switch Setting					
0	▲	▲	▲	▲	▲	▲	32	○	○	○	○	○	○
1	▲	▲	▲	▲	▲	▲	33	▲	▲	▲	▲	▲	▲
2	▲	▲	▲	▲	▲	▲	34	▲	▲	▲	▲	▲	▲
3	▲	▲	▲	▲	▲	▲	35	▲	▲	▲	▲	▲	▲
4	▲	▲	▲	▲	▲	▲	36	○	○	○	○	○	○
5	▲	▲	▲	▲	▲	▲	37	▲	▲	▲	▲	▲	▲
6	▲	▲	▲	▲	▲	▲	38	▲	▲	▲	▲	▲	▲
7	▲	▲	▲	▲	▲	▲	39	▲	▲	▲	▲	▲	▲
8	○	○	○	○	○	○	40	○	○	○	○	○	○
9	▲	▲	▲	▲	▲	▲	41	▲	▲	▲	▲	▲	▲
10	▲	▲	▲	▲	▲	▲	42	○	○	○	○	○	○
11	▲	▲	▲	▲	▲	▲	43	▲	▲	▲	▲	▲	▲
12	○	○	○	○	○	○	44	○	○	○	○	○	○
13	▲	▲	▲	▲	▲	▲	45	▲	▲	▲	▲	▲	▲
14	○	○	○	○	○	○	46	○	○	○	○	○	○
15	▲	▲	▲	▲	▲	▲	47	▲	▲	▲	▲	▲	▲
16	○	○	○	○	○	○	48	○	○	○	○	○	○
17	▲	▲	▲	▲	▲	▲	49	▲	▲	▲	▲	▲	▲
18	○	○	○	○	○	○	50	○	○	○	○	○	○
19	▲	▲	▲	▲	▲	▲	51	▲	▲	▲	▲	▲	▲
20	○	○	○	○	○	○	52	○	○	○	○	○	○
21	▲	▲	▲	▲	▲	▲	53	○	○	○	○	○	○
22	○	○	○	○	○	○	54	○	○	○	○	○	○
23	▲	▲	▲	▲	▲	▲	55	▲	▲	▲	▲	▲	▲
24	○	○	○	○	○	○	56	○	○	○	○	○	○
25	▲	▲	▲	▲	▲	▲	57	▲	▲	▲	▲	▲	▲
26	○	○	○	○	○	○	58	▲	▲	▲	▲	▲	▲
27	▲	▲	▲	▲	▲	▲	59	▲	▲	▲	▲	▲	▲
28	○	○	○	○	○	○	60	○	○	○	○	○	○
29	▲	▲	▲	▲	▲	▲	61	▲	▲	▲	▲	▲	▲
30	○	○	○	○	○	○	62	▲	▲	▲	▲	▲	▲
31	▲	▲	▲	▲	▲	▲	63	▲	▲	▲	▲	▲	▲
Address	1	2	3	4	5	6	Address	1	2	3	4	5	6
	Switch Setting							Switch Setting					

▲ = switch up
○ = switch down

**OmniDrive Addresses
and Switch Settings**

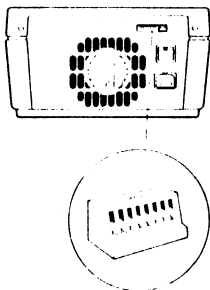
3. Check the bias switch on the first server.

On a disk server, switch 7 is the bias switch. If a disk server was the first server on the network, make sure its switch 7 is set ON to set the bias on.



First Disk Server Bias Switch Setting

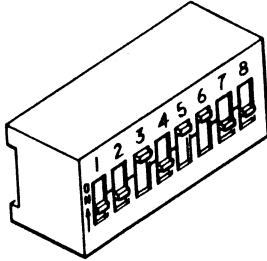
On an OmniDrive, switch 8 is the bias switch. If an OmniDrive was the first server on the network, make sure its switch 8 is set DOWN to set the bias on.



First OmniDrive Bias Switch Setting

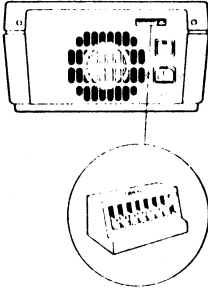
4. Check the bias switch on the new server.

If a disk server was just added to the network, make sure switch 7 is set OFF to set the bias off. All additional servers should have the bias off.



New Disk Server Bias Switch Setting

If an OmniDrive was just added to the network, make sure switch 8 is set UP to set the bias off. All additional servers should have the bias off.



New OmniDrive Bias Switch Setting

Go to the next section, "Merging the User Tables," to create matching user tables.

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**MERGING THE
USER TABLES**

Merging user tables requires complete control of the network. Make sure that no one is trying to use the network when following the steps below. Turn off all existing mass storage systems.

Connect the new system just generated, and the new computer, if any, to the existing network. Follow the appropriate steps in the setup instructions for the system and the installation guide for the computer.

Use this section to merge the user tables. Make sure the new server is turned on and the existing servers are left turned off until instructed to turn them on.

**1. Log on as
system manager.**

Log on at the computer used to generate the new system just connected. The system manager's log-on name and password are in the system manager guide for the computer. If the screen doesn't already display the Constellation II main menu, enter Constellation II.

**2. Turn on the
existing servers.**

After turning the servers on, wait until only the red indicator light labeled READY is lit on all drives before performing the next step.

**3. Select the
drive management option.**

Press D

The screen displays the drive management main menu.

4. Select the new server.

Press S

The screen display is similar to:

```
-----  
CORVUS UTILITY [x.xx]      DS  
Select Drive              Drive  
-----  
Enter drive information:  
  
Valid servers are: SERVER0, SERVER1  
Enter server name: [SERVER0]  
  
-----
```

Type the server name, drive name and password for the new server and **press** [RETURN].

The screen displays the drive management main menu again.

5. Select the user manager.

Press U

The screen displays the user manager main menu.

6. Select the merge user tables option.

Press M

After a moment, the screen display is similar to:

```
-----  
User Manager [x.xx]          DS SERVER1  
Merge User Tables           Drive DRIVE1  
-----  
Press <BREAK> to terminate merge.  
Looking at server SERVER0  
User APCPMUSER added  
User APDOSUSER added  
User APMGR added  
User APPASUSER added  
User SERVER1 added  
All servers updated.  
-----  
Press <SPACE> to continue  
-----
```

The program automatically checks all the servers on the network and displays a similar list for each. Accept the suggested responses until all servers are updated.

Press [SPACE], then return to the drive management main menu.

7. Repeat the steps for an existing server.

Repeat steps 4 through 6 above, selecting an existing server in step 4. It is necessary to repeat the procedure only once, no matter how many servers or computer types existed previously, because the existing user tables had to match for the network to work.

8. Exit Constellation II.

When finished merging the user tables, exit Constellation II completely.

Users adding the new server to a network that only has one computer type and no utility servers are done. Go to the appropriate system manager guide to create users and volumes and grant access.

Users adding the new server to a network that has utility servers or more than one computer type must go to the next section, "Updating the Boot Files."

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**UPDATING THE
BOOT FILES**

Updating boot files requires complete control of the network. Make sure that no one is trying to use the network when following the steps below.

Users adding the new server to a network that has utility servers must first go to the subsection "Utility Servers."

Users adding the new server to a network that has more than one computer type must also complete the subsection "Existing Computers."

Users adding the new server and a new computer type to an existing network of one or more computer types must also complete the subsection "New Computers."

UTILITY SERVERS

Follow the steps below to add the utility server boot files to the new server.

1. **Turn off the new server.**

Turn off the system just generated.

2. **Log on as system manager.**

Log on at the computer used to establish utility server service initially.

If the screen doesn't already display the Constellation II main menu, enter the Constellation II program.

3. Turn on the new server.

After turning the server on, wait until only the drive's red indicator light labeled READY is lit before performing the next step.

4. Select the drive management option.

Press D

The screen displays the drive management main menu.

5. Select the server.

Press S

Type the server name, drive name and password for the server and **press** [RETURN].

6. Select the boot manager.

Press B

Some computers may unmount a volume and require pressing [SPACE] before continuing the program.

The screen displays the boot manager main menu:

```

-----
Boot Manager [x.xx]      DS SERVER1
Main Menu                Drive DRIVE1
-----
A - Add boot file
R - Remove boot file
L - List boot files

H - Help
E - Exit

-----
Please select an option:
-----

```

7. Select add a boot file.

Press A

The screen displays:

```

-----
Boot Manager [x.xx]      DS SERVER0
Add a boot file         Drive DRIVE1
-----
Enter boot file characteristics:
Source file name:
-----

```

8. Enter the boot file name.

The following chart shows the utility server types and boot file names:

<u>Utility Server Type</u>	<u>File Name</u>
Printer Server	BOOT.PRINTSRV

Put the utility server diskette in the diskette drive of the computer in use. On a Corvus Concept (TM) personal workstation, type the name using the format "/diskettename/filename" to specify the source file

name and **press** [RETURN]. On all other computers, **type** the name using the format "diskettename:filename" and **press** [RETURN].

The screen display is similar to:

Computer type:
Select from:
Apple2
Concept
Concept2
IBMPC
Printsrv
TIPC

9. Enter the utility server type.

Type the correct name and **press** [RETURN].

The screen display is similar to:

OK to add boot file BOOT.Printsrv (Y/N)? [Y]

10. Add the boot file.

Press [RETURN]

The screen display is similar to:

Mounting volume CORVUS on unit 20
Copying file.....
2 blocks written to file BOOT.Printsrv
Update all servers? [Y]

All existing servers must have the proper files for the network to function. Update all servers to ensure that the file is on all servers.

Press [RETURN]

Once all servers are updated, press [SPACE] twice, then exit Constellation II.

11. Repeat the steps for all types.

Repeat steps 1 through 11 for each different utility server type on the network.

Users with only one computer type and one or more utility servers are done once the utility server boot files have been added. Go to the appropriate system manager guide to create users and volumes and grant access.

Users with more than one computer type and those having added a new computer type other than the Zenith Z-100 (TM) or the DEC Rainbow 100 (TM), must go to the next section, "Existing Computers," once all utility server boot files have been added.

DEC Rainbow 100 is a trademark of Digital Equipment Corporation.

Zenith Z-100 is a trademark of Zenith Data Systems.

Users having added a new computer type to a network currently using only the Zenith Z-100 or the DEC Rainbow 100 must skip to the subsection "New Computers" to add the new boot file to the existing servers.

EXISTING COMPUTERS

Follow the steps below to add all the existing boot files to the new server. The procedure described in this section will be repeated for each computer type, except the Zenith Z-100 and the DEC Rainbow 100, on the network. The Rainbow 100 and the Z-100 do not use boot files.

1. **Turn off the new server.**

Turn off the system just generated.

2. **Log on as system manager.**

Log on at a computer that already works with the network.

If the screen doesn't already display the Constellation II main menu, enter the Constellation II program.

3. **Turn on the new server.**

Turn on the system just generated. After turning the server on, wait until only the drive's red indicator light labeled READY is lit before performing the next step.

4. **Select the drive management option.**

Press D

The screen displays the drive management main menu.

- 5. **Select the new server.**

Press S

Type the server name, drive name and password for the new server and press [RETURN].

- 6. **Select the boot manager.**

Press B

Some computers may unmount a volume and require pressing [SPACE] before continuing the program.

The screen displays the boot manager main menu:

```
-----  
Boot Manager [x.xx]          DS SERVER1  
Main Menu                    Drive DRIVE1  
-----  
A - Add boot file  
R - Remove boot file  
L - List boot files  
  
H - Help  
E - Exit  
  
-----  
Please select an option:  
  
-----
```

- 7. **Select add a boot file.**

Press A

The screen displays:


```
-----  
Boot Manager [x.xx]      DS SERVER0  
Add a boot file         Drive DRIVE1  
-----  
Enter boot file characteristics:  
Source file name:  
-----
```

8. Enter the boot file name.

The following chart shows the various computer types and boot file names:

<u>Computer Type</u>	<u>File Name</u>
Corvus Concept	BOOT.CONCEPT
Apple II	BOOT.APPLE2
Corvus Concept+	BOOT.CONCEPT2
IBM PC	BOOT.IBMPC
T1 Professional	BOOT.TIPC

Type the file name for the computer currently being used and **press** [RETURN].

The screen display is similar to:

```
-----  
Computer type:  
  
Select from:  
  Apple2  
  Concept  
  Concept2  
  IBMPC  
  Printsrv  
  TIPC  
-----
```

9. Enter the computer type.

Type the correct name and **press** [RETURN].

The screen display is similar to:

OK to add boot file BOOT.Concept (Y/N) [Y]

10. Add the boot file.

Press [RETURN]

The screen display is similar to:

Mounting volume CORVUS on unit 20
Copying file.....
10 blocks written to file BOOT.Concept
Update all servers? [Y]

All existing servers must have the proper files for the network to function. Update all servers to ensure that the file is on all servers.

Press [RETURN]

Once all servers are updated, press [SPACE] twice, then exit Constellation II.

11. Repeat the steps for all types.

Repeat steps 1 through 11 for every different existing computer type on the network, except the DEC Rainbow 100 and Zenith Z-100.

If the new system was generated using a new computer type other than the DEC Rainbow 100 or Zenith Z-100, go to the next subsection, "New Computers," once all existing boot files match.

Otherwise, go to the appropriate system manager guide to create users and volumes and grant access.

NEW COMPUTERS

Complete the steps below to add the new computer's boot file to the existing servers.

1. Turn off the existing servers.

Turn off all the existing servers, but leave the new server on.

2. Log on as system manager.

Log on at the new computer.

If the screen doesn't already display the Constellation II main menu, enter the Constellation II program.

3. Turn on the existing servers.

Turn on all the existing servers. After turning the servers on, wait until only the red indicator light labeled READY is lit on all the drives before performing the next step.

4. Select the drive management option.

Press D

The screen displays the drive management main menu.

- 5. **Select one of the existing servers.**

Press S

Type the server name, drive name and password for one of the existing servers and press [RETURN].

- 6. **Select the boot manager.**

Press B

Some computers may unmount a volume and require pressing [SPACE] before continuing the program.

The screen displays the boot manager main menu:

```
-----  
Boot Manager [x.xx]      DS SERVER1  
Main Menu                Drive DRIVE1  
-----  
A - Add boot file  
R - Remove boot file  
L - List boot files  
  
H - Help  
E - Exit  
-----  
Please select an option:  
-----
```

- 7. **Select add a boot file.**

Press A

The screen displays:

```

-----
Boot Manager [x.xx]      DS SERVER0
Add a boot file         Drive DRIVE1
-----

```

```

Enter boot file characteristics:
Source file name:
-----

```

8. Enter the boot file name.

The following chart shows the various computer types and boot file names:

<u>Computer Type</u>	<u>File Name</u>
Corvus Concept	BOOT.CONCEPT
Apple II	BOOT.APPLE2
Corvus Concept+	BOOT.CONCEPT2
IBM PC	BOOT.IBMPC
TI Professional	BOOT.TIPC

Type the file name for the computer currently being used and **press** [RETURN].

The screen display is similar to:

```

-----
Computer type:

```

```

Select from:
  Apple2
  Concept
  Concept2
  IBMPC
  Printsrv
  TIPC
-----

```

9. Enter the computer type.

Type the correct name and **press** [RETURN].

The screen display is similar to:

OK to add boot file BOOT.Apple2 ? (Y/N) [Y]

10. Add the boot file.

Press [RETURN]

The screen display is similar to:

Mounting volume CORVUS on unit 20
Copying file.....
10 blocks written to file BOOT.Apple2
Update all servers? [Y]

All existing servers must have the proper files for the network to function. Update all servers to ensure that the file is on all servers.

Press [RETURN]

Once all servers are updated, press [SPACE] twice, then exit Constellation II.

Go to the appropriate system manager guide to create volumes and users and grant access.