

Novell Volera Velocity Management Suite

2.0

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GETTING STARTED GUIDE



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Volera Velocity Management Suite Getting Started Guide

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1

What Do You Want To Do?

IMPORTANT: We strongly recommend that you review the Release Notes posted on the [Web \(http://www.novell.com/documentation/lg/vs20\)](http://www.novell.com/documentation/lg/vs20) prior to installing the Velocity Management Suite 2.0 management suite.

Use the information in [Table 1](#) to find what you need to get started with the Velocity™ Management Suite.

Table 1

Task	Where to Go
Documentation: Access and use the suite's online documentation.	"Product Documentation" on page 29.
Install the Suite: Install suite components on approved hardware.	"Installing Velocity Management Suite 2.0" on page 15
Upgrade a Management Server: Upgrade an existing Velocity management server.	"Upgrading from Velocity CDN 1.2" on page 23
Access the Management Interface: Access and begin using the management suite interface.	"Accessing the Management Suite Interface" on page 27
Use the Management Suite: Learn about and use the management suite.	"Where to Go from Here" on page 31

2 Product Overview

This Getting Started Guide contains complete instructions for installing Velocity™ CDN 2.0 and the Velocity datastore.

Instructions for using Velocity Management Suite 2.0 to manage your content distribution and delivery network are contained in the *Volera System Controller Deployment Guide* and the *Volera Content Controller Deployment Guide*.

For technical support for this and other Volera™ products, go to the [Volera product pages on support.novell.com](http://support.novell.com/volera) (<http://support.novell.com/volera>).

About Product Licenses

To install the Velocity management suite products, you will need the appropriate licenses summarized in [Table 2](#).

Volera product licenses are distributed through Novell Sm@rtCerts—executable files, distributed through e-mail at product-purchase time, that link you to a secure place on the Web from which you download your license files.

If you did not receive the appropriate license files, please contact Novell Customer Service at 1-800-858-4000 in the U.S.A. or 1-800-4686-5372 internationally.

Table 2

To Install This Product	You Will Need These License Files
System Controller	A license file for System Controller that has a .lic extension
Content Controller	A license file for Content Controller that has a .lic extension
Content Accountant	A license file for Content Accountant that has a .lic extension

About the Velocity Management Suite

Volera's Velocity Management Suite 2.0 is a comprehensive content delivery and distribution management solution that runs on a RedHat Linux 7.2 or 7.3 server.

The management suite lets you manage and optimize content caching and system configuration on multiple cache devices using three specialized management components:

System Controller: Lets you manage and monitor cache devices. Using System Controller's Web interface, you can apply global configurations and schedule events for single or multiple caches. You can also monitor the health and performance of the cache devices in your content network.

Content Controller: Lets you manage, prioritize, and automate the distribution, delivery, and availability of content across your content network.

Content Accountant: Let you track, collect, and export content usage statistics for you content network's cache devices. You can use the exported data with third-party reporting and billing applications.

3 System Requirements

Before you install Velocity Management Suite 2.0, make sure that your server environment meets the requirements outlined in this section.

Meeting Hardware Requirements

The Velocity™ management suite requires a dedicated Linux server with the following minimum hardware resources:

- ♦ Pentium* III 900 MHz or higher
- ♦ 1 GB RAM
- ♦ 40 GB Hard Drive

Installing RedHat 7.2 or 7.3 on the Management Servers

Velocity Management Suite 2.0 requires that you prepare the following software environment on each management server:

1. Install RedHat* Linux version 7.2 or 7.3 on the management server.

NOTE: We recommend using the server install.

2. Set the swap partition to at least 512 MB.
3. Ensure you have at least 300 MB of free disk space in the /opt directory.
4. Be sure to
 - ♦ Configure a DNS server for the management server.
 - ♦ Ensure that the management server is assigned an externally resolvable DNS name on the DNS server.

IMPORTANT: As you install RedHat Linux, *Do Not* assign a host name to the management server.

5. Assign a static IP address for cache devices to access for communicating with the management server.
6. When specifying the RedHat firewall configuration, consider the management suite port requirements summarized in [Table 3](#).

Table 3 Management Suite Firewall Port Requirements

Allow Incoming	Standard Ports	Required for Management Suite?
WWW (HTTP)	TCP 80	Yes
DNS	TCP/UDP 53	Yes

Allow Incoming	Standard Ports	Required for Management Suite?
SLP	TCP/UDP 427	Yes
SSL	TCP 443	Yes
NTP	UDP 123	Yes
SSH	TCP 22	Optional. Strongly recommended.
Datastore Replication	TCP 389 and TCP/UDP 524	IMPORTANT: This is required if two or more management servers must synchronize their copies of the datastore through the firewall.
DHCP	UDP 67 (server), UDP 68 (client)	No
Telnet	TCP 23	No
Mail (SMTP)	TCP 25	No
FTP	TCP 20 and 21	No

Providing for Communication Between Content Network Components

You must ensure that the following communication is possible on your network:

- ◆ **Velocity management servers:** All Velocity management servers containing System Controller must be able to communicate with each other to keep their datastores synchronized.
- ◆ **Velocity management servers and cache devices:** The management servers must be able to communicate with the cache devices on the port configured (default port is 443). You must provide communication through any firewalls that are between the servers and the cache devices. Additionally, no other services can be running on the same IP address/port combination. For example, if you are using Secure Excelsator on Excelsator 2.x managed devices, you must move Velocity management to another IP address/port combination.

Setting Server Time

The Velocity datastore requires that all system times are synchronized.

It is, therefore, critical that you configure all Velocity management servers for network time protocol (NTP) or other time-synchronization support prior to installing Velocity Management Suite 2.0.

You can set up NTP support using the standard RedHat date and time management mechanisms.

For help enabling and configuring NTP support, see the instructions on the [RedHat Web site \(http://www.redhat.com/docs/manuals/linux\)](http://www.redhat.com/docs/manuals/linux).

4

About Velocity Management Suite Licenses

Each Velocity license file contains two critical authorization numbers for each management suite component it licenses:

- ◆ The number of management servers on the network that can run the management suite components (System Controller, Content Controller, or Content Accountant) for which the license was issued
- ◆ The total number of Exceleator cache devices that the management servers running on the network can manage

All of the license files with .lic extensions for all Velocity products can and should be installed on each management server.

The reason for this is that each server requires a locally installed license for each Velocity product it communicates with, including the Exceleator cache devices it manages on the network. A given management server will not recognize more Velocity product instances than it has licenses for.

You must have your licenses available for installation during the management suite installation process. Otherwise, the installation process will not continue beyond the request for a license file location.

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Installing Velocity Management Suite 2.0

IMPORTANT: Review the *Volera Velocity Management Suite Release Notes* for updated installation information prior to installing any management suite products.

The Velocity Management Suite 2.0 products and the Velocity datastore are installed using the *Velocity Management Suite 2.0* CD.

Planning the Installation

Prior to installing the management suite, use the [Installation Planning Worksheet \(http://www.novell.com/documentation/lg/vs20/pdfdoc/worksheets.pdf\)](http://www.novell.com/documentation/lg/vs20/pdfdoc/worksheets.pdf) to plan your installation.

For help accessing the online documentation, see “[Product Documentation](#)” on page 29.

Planning for a Multiple Server Installation

The Velocity management suite provides automatic datastore synchronization between the datastores on all Velocity management servers managing the same content distribution and delivery network, providing these requirements for datastore synchronization are met:

- ◆ Before installing the management suite, do the following:
 - ◆ Ensure that all the management servers can communicate with each other on the same network.
 - ◆ Ensure that all management servers have time synchronized using NTP or some other time synchronization tool.

For help enabling the standard RedHat 7.2 Date and Time mechanisms, refer to the following URL: <http://www.redhat.com/docs/manuals/linux/rhl-7.2-Manual/custom-guide/dateconfig.html>.

- ◆ Install the server you want to use as the master server first.
- ◆ Export the master server’s Certificate Authority for installation on all secondary management servers.
- ◆ Specify to use an existing datastore when installing the secondary (replica) servers and provide the datastore name and datastore IP address of the master server.
- ◆ Import the master server’s Certificate Authority to each secondary server.

Preparing the License Files for Installation

You must ensure that all of the Velocity license files for each of the products you have purchased are installed on each management server on your network.

The setup script prompts for a path from which to copy all license files. Since only one path can be specified, we recommend you copy all of your license files to a single location as described in the following sections.

Installing from a Floppy Disk

You can copy all of your Velocity licenses to a single floppy disk prior to running the setup script. This will enable you to install all of the licenses at product installation time by simply inserting the diskette and accepting the default license location expected by the script (/mnt/floppy).

Complete the following steps:

- 1 Copy all the license files you downloaded at product-purchase time to a blank, formatted floppy disk.
- 2 Store the license diskette in a safe location.
- 3 Continue with [“Running the Setup Script” on page 19](#).

Copying the License Files to the Management Server

If you prefer to install the license files from a location on your management server, complete the following steps:

- 1 Create or designate a directory on the management server for your management suite product license files.
- 2 Copy all the license files you downloaded at product-purchase time that have .lic extensions for each product you plan to install to the directory you have chosen.
- 3 Copy one pair of datastore licenses to the directory. The license pair have .nfk and .nlk extensions.

Automating the Installation with a Script Answer File

If you prefer to install the suite in an unattended or automated mode, you can prepare an answer file that the script can use in place of keyboard input. For your convenience we provide a copy of an [answer file that you can download and customize \(./../scripts/vinstall.txt\)](#).

Table 4 lists the setup information you need to either provide in an answer file or enter as you install the management suite.

Table 4

Setup Information	Answer File Parameter	Detailed Description	Values
License File Location	vcdn_license_path	The location of the product license files (*.lic). All license file should be installed on each management server.	Any valid path
Install System Controller?	install_sc	A switch that specifies whether to install System Controller.	0 = Do not install 1 = Install

Setup Information	Answer File Parameter	Detailed Description	Values
IP Address of Management Server	ip_address	The IP address that devices will use to communicate with System Controller	Any valid address except 127.0.0.1
Path to the Datastore License Files	datastore_license_path	The location of a single datastore license pair (.nfk and .nlf extensions) IMPORTANT: The location must contain only one datastore license pair.	Any valid path to a single datastore license pair
Create a new datastore?	create_new_datastore	A switch that specifies whether to install a new datastore or use an existing datastore (on the master server that is already installed and running).	0 = existing datastore 1 = new datastore
Datastore Name	datastore_name	A name for the Velocity datastore. This name is an NDS directory tree name. You must specify a unique name on your network for the master server and then use that same name for each subsequently installed management server that will share and jointly manage the objects in the datastore. WARNING: If you plan to have multiple, independent Velocity management suite implementations for evaluation or testing purposes, you must ensure that you give each datastore a unique name. This is especially critical if the evaluation networks are independent and not initially connected but might be connected in the future. Failure to follow this rule will cause corruption and data loss if and when the networks can communicate with each other.	A unique, alphanumeric name that doesn't contain any spaces
Datastore Address	datastore_address	The script will use this only when installing a secondary server.	The System Controller IP address of the master server
Datastore Password	datastore_password	A password that controls management access to the Velocity datastore.	An alpha-numeric string between five and 32 characters and no spaces.
Super Administrator User ID or Name	super_admin_name	The user id or name of the super administrator — the administrator who creates and manages all other CDN administrators.	An alpha-numeric string with no spaces.
Super Administrator Password	super_admin_password	The password for the super administrator.	An alpha-numeric string between five and 32 characters and no spaces.

Setup Information	Answer File Parameter	Detailed Description	Values
L4 Switch IP Address	l4_address	If you are using an L4 switch for load balancing between Velocity management servers, specify the IP address of the switch. If not, specify the System Controller's address (ip_address).	The L4 Switch IP Address or the System Controller IP address (ip_address) if a switch is not used.
Region Where Management Server Is Located	sc_region	If an L4 switch is not used, this must be a unique name for the region where this management server is located. If an L4 switch is used,	An alpha-numeric string that can include spaces.
Certificate Authority Country	certificate_authority_country	The ISO two-letter country code for the country where the master server is installed for use by the server's Certificate Authority. The script will ignore this when installing secondary servers.	Two letters representing the country where the master server is installed.
Certificate Authority State	certificate_authority_state	A string representing the state or province where the master server is installed for use by the server's Certificate Authority. The script will ignore this when installing secondary servers.	A string representing the state or province where the master server is installed, including spaces.
Certificate Authority Locality	certificate_authority_locality	A string representing the city or locality where the master server is installed for use by the server's Certificate Authority. The script will ignore this when installing secondary servers.	A string representing the city or locality where the master server is installed, including spaces.
Certificate Authority Organization	certificate_authority_organization	A string representing the company or organization that owns the master server. The script will ignore this when installing secondary servers.	A string representing the company or organization that owns the master server, including spaces.
Certificate Authority Common Name	certificate_authority_common_name	A common name for the Certificate Authority, generally the server's DNS name. The script will ignore this when installing secondary servers.	A string representing the CA, generally the server's DNS name. No spaces are allowed.
Certificate Authority Validity Period	certificate_authority_validity_period	The validity period of the Certificate Authority in days.	Any positive whole number.
Install Content Controller?	install_cc	A switch that specifies whether to install Content Controller. Content Controller will only be installed if System Controller is also installed.	0 = Do not install 1 = Install

Setup Information	Answer File Parameter	Detailed Description	Values
Install Content Accountant?	install_ca	<p>A switch that specifies whether to install Content Accountant.</p> <p>Content Accountant can be installed on a separate management server or on a server with System Controller and Content Controller.</p> <p>The server with Content Accountant installed must be able to communicate with a management server running System Controller and Content Controller.</p>	<p>0 = Do not install</p> <p>1 = Install</p>
Content Accountant System ID	ca_system_id	<p>Specify a unique name for this instance of Content Accountant.</p> <p>Each instance of Content Accountant must have a unique name. The name must not contain spaces.</p> <p>This is used only when Content Accountant is being installed.</p>	Any alpha-numeric string without spaces.
Content Accountant Region ID	ca_region_id	<p>Specify a region where Content Accountant is installed.</p> <p>Each instance of Content Accountant must have a unique Region ID.</p> <p>This option applies only when you are installing Content Accountant.</p>	Any alpha-numeric string without spaces.
Content Accountant Organization ID	ca_organization_id	<p>If you are installing Content Accountant, specify the name of your organization.</p> <p>Each instance of Content Accountant used by an organization should have the same organization id.</p> <p>This option applies only when you are installing Content Accountant.</p>	Any alpha-numeric string without spaces.

Running the Setup Script

Complete the following instructions to install the management suite products.

Deciding Which Products to Install

Content Controller must be installed on a management server that is also running System Controller. If you have both these products, you must therefore install them together on the same server.

Content Accountant, on the other hand, only requires that Content Controller be accessible on the network. Content Accountant can be installed on a separate server or on a management server running System Controller and Content Controller.

Starting the Setup Script

You have two basic options when running the setup script:

- ◆ You can run the script in non-interactive mode by specifying the `-f` option followed by the location of an answer file you have created as described in [“Automating the Installation with a Script Answer File” on page 16](#).
- ◆ You can run the script in interactive mode (the default) and be prompted for the information outlined in [Table 4 on page 16](#).

Complete the following steps:

- 1 At the management server console, log in as the root user.
- 2 Insert the *Velocity Management Suite 2.0* CD into the server’s CD-ROM drive.
- 3 At the Linux command line, change to the CD ROM directory using the following command:

```
cd /mnt/cdrom
```

NOTE: If the CD ROM didn’t auto-mount, you must manually mount the CD first using the `mount /mnt/cdrom` command.
- 4 Enter one of the following commands to run the setup script:
 - 4a To run the script in interactive mode, enter

```
./setup
```
 - 4b To run the script in non-interactive mode, enter

```
./setup -f answer_file
```

where *answer_file* is the path and filename of an answer file you have previously created as described in [“Automating the Installation with a Script Answer File” on page 16](#).
- 5 If you are running in interactive mode, read the license agreement, then accept it by typing `y` and pressing Enter.
- 6 If you are running in interactive mode, refer to [Table 4](#) for help with the information you are prompted to enter.
- 7 After you have answered all the prompts, the setup process continues automatically. When the system prompt reappears, the management suite is running on the server, and you can access it by following the instructions in [“Accessing the Management Suite Interface” on page 27](#).
- 8 If you are installing multiple management servers that will manage the same content network, repeat the installation starting with [Step 1](#) on each server before proceeding to the next step.
- 9 If you are installing multiple management servers that will manage the same content network, you must complete the instructions in [“Copying the Master Server’s Certificate Authority” on page 20](#)
- 10 To begin using the management suite, see [“Where to Go from Here” on page 31](#).

Copying the Master Server’s Certificate Authority

If you have installed multiple management servers that will manage the same content network, you must ensure that all of the secondary servers have the master server’s Certificate Authority installed by completing the following steps.

- 1 Log into the master server (the first management server you installed) as root.

- 2 Change to the `/opt/volera/roma/bin` directory and enter the following command:

```
./import-export-ca exportvcdn /root
```
- 3 Enter a password that you will be sure to remember when importing the Certificate Authority on each secondary server.
- 4 Confirm the password you entered in [Step 3](#).
The master server's Certificate Authority files are exported to a .p12 file named `master_vcdn.p12` in the master server's `/root` directory.
- 5 Copy the generated .p12 file to a secondary server using the following command:

```
scp /root/master_vcdn.p12 root@IP_or_DNS:/tmp
```

where `IP_or_DNS` is either the IP address or the fully-qualified DNS name of the secondary server to which you are copying the `master_vcdn.p12` file.
For example, if the secondary server IP address is 10.1.1.23, you would enter

```
scp /root/master_vcdn.p12 10.1.1.23:/tmp
```
- 6 If prompted whether to continue connecting, enter

```
yes
```
- 7 Enter the root password of the secondary server to which you are copying the .p12 file.
- 8 Repeat from [Step 5](#) until the `master_vcdn.p12` file has been copied to each secondary server.
- 9 Log into a secondary server as root.
- 10 Change to the `/opt/volera/roma/bin` directory and enter the following command:

```
./import-export-ca importvcdn /tmp
```
- 11 Enter the password you entered in [Step 3](#).
- 12 Re-enter the password you entered in [Step 3](#).
- 13 When prompted for the Keystore password, enter

```
volera
```
- 14 When prompted whether to trust the certificate, enter

```
yes
```


The master server's Certificate Authority is imported to the secondary server.
- 15 On the secondary server enter the following commands:

```
service volera stop  
service volera start
```
- 16 Repeat from [Step 9](#) until the Certificate Authority has been imported to all the secondary servers.

6

Upgrading from Velocity CDN 1.2

IMPORTANT: Review the [Volera Velocity Management Suite Release Notes](#) for updated installation information prior to installing any management suite products.

You can upgrade an existing Velocity CDN 1.2 installation using the *Velocity Management Suite 2.0 CD*.

WARNING: Once you have upgraded a Velocity management server to version 2.0, you cannot restore it to version 1.2.

Multiple Server Installations

If you use multiple Velocity CDN 1.2 management server to upgrade, you must complete the following tasks in the order shown:

1. Upgrade the master server.
2. Upgrade the secondary servers.
3. Copy the master server's Certificate Authority to each secondary server by completing the instructions in [“Copying the Master Server's Certificate Authority” on page 20](#).

Null Device Passwords Are Not Supported by Upgrade

If you have Excelerator 2.x devices that are managed by the management suite and that have blank passwords for the Config user, you must do the following on each device:

- 1 In System Controller click Device List > *the device name* > Edit (on the Device Details page).
- 2 Click Old Password and press Delete.
- 3 Type a new password in the New Password and Confirm New Password fields.
- 4 Click Submit.
- 5 Repeat this process for each 2.x device that has a blank password.

Running the Setup Script

IMPORTANT: If you use multiple Velocity CDN 1.2 management servers, you must upgrade the master server first.

NOTE: The 2.0 setup script upgrades only the Velocity CDN 1.2 products that are installed on the server. If you need to install Content Controller or Content Accountant and these were not previously installed, you will need to install them after the upgrade process completes.

Complete the following steps:

- 1 Insert the *Velocity Management Suite 2.0 CD* into the server's CD ROM drive.

2 At the Linux command line, enter the following commands:

```
cd /mnt/cdrom
./setup
```

NOTE: If the CD ROM didn't auto-mount, you must manually mount the CD first using the `mount /mnt/cdrom` command.

3 Accept the Volera License Agreement by typing **y** and pressing Enter.

4 When prompted, enter the following:

- ◆ The datastore administrator password you specified for System Controller 1.2.
- ◆ The Super Administrator User ID specified for System Controller 1.2.
- ◆ The Super Administrator password specified for System Controller 1.2.

5 Wait for the installation to complete before using the management server.

WARNING: The upgrade process takes longer than a new installation because of the datastore migration.

Do not interrupt the installation process. Interrupting or killing the installation process before it completes will corrupt your 1.2 datastore.

If you are installing System Controller, the setup process includes synchronizing the datastore with the settings on all managed cache devices. For this initial synchronization process, settings on devices override settings in the datastore. The length of the synchronization process depends on the number of devices being managed and the network connection with these devices.

During the synchronization process, you can access the management suite interface. Be aware, however, that if you attempt to change the settings of a device that has not yet been synchronized, System Controller will prompt you to synchronize the settings before letting you make changes.

For more information on the synchronization feature, see [Synchronizing Devices and Datastores](#) in [Volera System Controller Deployment Guide](#) in the online documentation.

6 Complete the steps in [“About Velocity Management Suite Licenses”](#) on page 13.

7 If you use multiple management servers, complete the upgrade process on each server.

8 If you use multiple management servers, complete the instructions in [“Copying the Master Server’s Certificate Authority”](#) on page 20.

7

Uninstalling the Velocity Management Suite

Complete the following instructions to uninstall the management suite products.

Deciding Which Products to Uninstall

If you uninstall System Controller and Content Controller is installed on the same management server, Content Controller must also be uninstalled.

Both Content Controller and Content Accountant can be uninstalled without uninstalling System Controller.

Starting the Uninstall Script

Complete the following steps:

- 1 At the management server console, log in as the root user.
- 2 Insert the *Velocity Management Suite 2.0* CD into the server's CD-ROM drive.
- 3 At the Linux command line, change to the CD ROM directory using the following command:

```
cd /mnt/cdrom
```

NOTE: If the CD ROM didn't auto-mount, you must manually mount the CD first using the `mount /mnt/cdrom` command.

- 4 Enter the following command:

```
./uninstall
```
- 5 Specify the products you want to uninstall.
- 6 After you have answered all the prompts, the uninstall process continues automatically. When the system prompt reappears, the management suite is uninstalled.

8

Accessing the Management Suite Interface

The Velocity™ management server 2.0 includes a Web management interface you can use to:

- ♦ Manage your network of Exceleator™ 2.1 and later and Exceleator XL 1.0 cache devices
- ♦ Globally configure content caching, distribution, and delivery services on your network
- ♦ Monitor content network performance and health status
- ♦ Schedule events for individual and grouped cache devices
- ♦ Control access to individual and grouped cache devices

To start using the Web interface, complete the following steps:

- 1 On your remote workstation, start an Internet Explorer 6 or later or a Netscape 7 or later browser.
- 2 Point the browser to the IP address of a management server running System Controller.
For example, type the following in the browser's Address field:
`http://iii.iii.iii.iii`
where *i* represents digits in the management server's IP address.
- 3 At the Login page, enter the Super Administrator name and password you defined during product installation > select your Start Page from the drop-down list > click Login.
- 4 You can now begin configuring, managing, and monitoring your content distribution and delivery network.

Complete instructions for setting up your content network are contained in the *Volera System Controller Deployment Guide*.

9

Product Documentation

To ensure our customers always have the latest information and instructions, all Volera product documentation is hosted on the Web.

Accessing the Product Documentation

We strongly recommend that you review the Release Notes posted on the [Web \(http://www.novell.com/documentation/lg/vs20\)](http://www.novell.com/documentation/lg/vs20) prior to installing the Velocity Management Suite 2.0 management suite.

To manually access the release notes and the Web-based documentation, do the following:

- 1 Insert the *Velocity 2.0* CD in a workstation with the Adobe Acrobat* Reader installed.
- 2 Browse to the DOC directory and open the ReleaseNotes.PDF file.
- 3 Click the link to the Web-based documentation.

After installing the suite, you can access the Web-based documentation by clicking the Help and User Guides links in the management suite interface.

Printing the Documentation

All the Velocity administration guides and the Configuration Worksheets are available in PDF format. You can view and print them using the Adobe Acrobat Reader.

10 Where to Go from Here

After completing the initial setup outlined in this guide, use [Table 5](#) as a springboard into using Velocity Management Suite 2.0.

Table 5

Task	Where to Go
Plan Your Content Network: Learn about the Velocity management suite and plan your content network management strategy.	Volera Velocity Management Suite Planning Guide.
Build Your Content Network: Build your content network and its management infrastructure.	Volera System Controller Deployment Guide
Deliver Content: Collect content, distribute it to the network's cache devices, and deliver it to content users.	Volera Content Controller Deployment Guide
Collect and Report Content Statistics: Aggregate content usage statistics and prepare reports.	Content Accountant Deployment Guide

