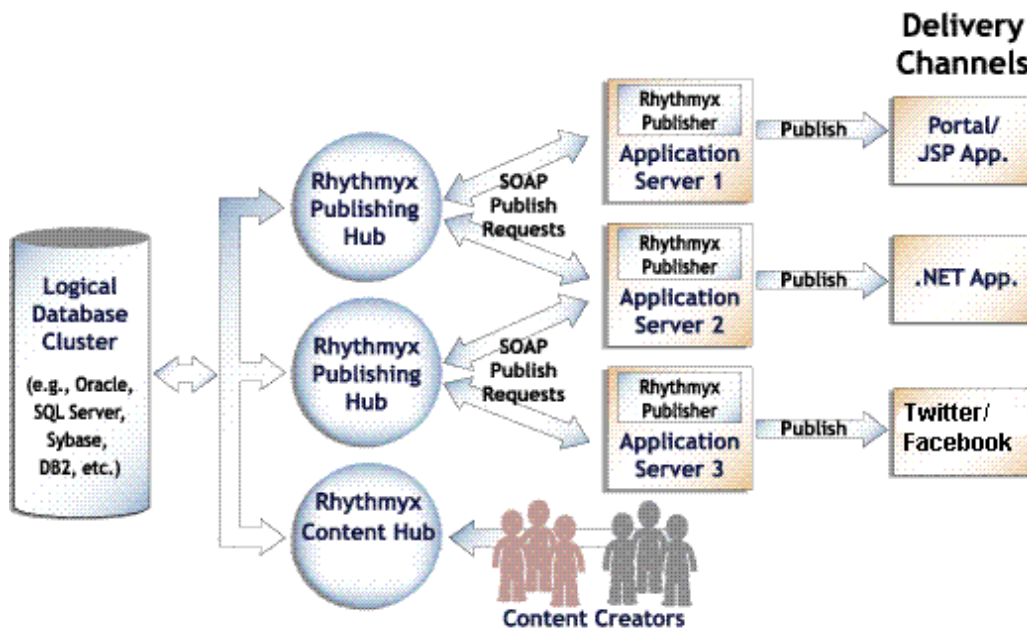


## Scaling the Publishing Environment

After selecting a deployment approach, an Administrator must consider what number of Publishing Hubs will meet an organization's publishing requirements. The number of Publishing Hubs required depends on the amount of content published to each target environment. In the following graphic, the amount of content published requires two publishing hubs, each handling the entire volume published to one destination and sharing the task of publishing to another destination.



*Scaling Rhythmyx Publishing Hubs*

Percussion recommends scaling by increasing Publishing hubs because increased productivity in CM System causes greater CPU use rather than more network traffic. This architecture allows for the segmentation of the CPU cycles across multiple servers based on typical user activity and on the expected publishing requirements of multiple communities and multiple delivery locations.

NOTE: Use a Publishing Hub only to manage or schedule publishing jobs for a Master Server; never generate content on a Publishing Hub. Generate content by connecting to the Master Server. Though the Publishing Hub user interface allows generating content on a Publishing Hub, content problems will occur if content is entered in a mixed environment.



## Guidelines for Expanding a CM System

A CM System Web Content Module or Document Management Module includes one Content Hub and one Publishing Hub. Depending on the factors discussed in this section, a company may initially choose to purchase additional publishing hubs, a test server, or a hot standby server, or may purchase them later, as its system develops and grows.

The following are guidelines for determining when to expand a CM System:

Optional Component	Scaling Guidelines
Additional Publishing Hub	If the publishing runs in your incremental publishing cycle overlap each other (one publishing run begins before the previous one is finished) your system may begin to republish Content Items and waste resources. You may acquire an additional publishing hub to handle some of the publishing volume.
Database Publisher	If you store content in a database and deliver it dynamically, you should consider purchasing a Database Publisher when you purchase your CM System. Otherwise, purchase a Database Publisher when you implement a database storage and delivery system for your Web site.
Test Server	Access to development servers is restricted to users with Workstation licenses; therefore a test server is necessary if you want business users to test your changes before you move the changes to a production server. A test server is also useful if: *Your implementers need the ability to merge their development work on a common server. You want to make new functionality available to some users for testing, but not to others.
Hot Standby Server	If customer need or industry regulations require that you have a highly available and updated system, you may acquire hot standby servers to back up your CM Server and other servers that you have added to your CM System.