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### What's New in Zoo 5

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# Rhinoceros® design, model, present, analyze, realize...

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#### What is the Zoo?

- The Zoo is a network, or floating, license manager.
- The Zoo lets you share licenses among users on your network.
- The Zoo is useful if you have more users of Rhino than you do licenses of Rhino.



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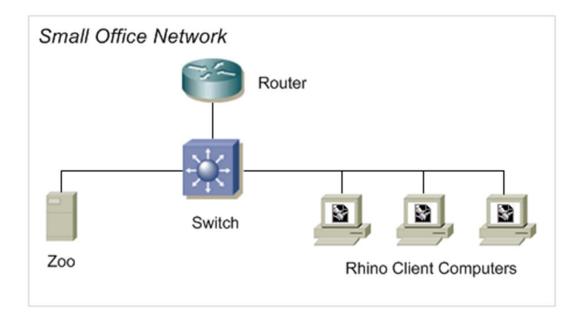
#### How does the Zoo work?

- 1. When a network node starts, it requests a license from the Zoo.
- 2. The Zoo assigns an unused license, from it's license pool, to the network node.
- 3. When the network node shuts down, the license is returned to the Zoo's license pool.



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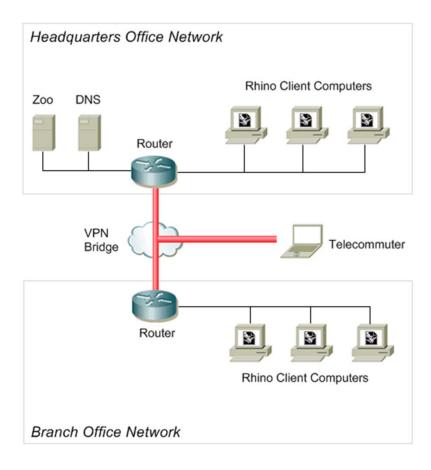
#### Zoo on Small Networks





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### Zoo on Large Networks





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#### What are the Zoo's features?

- The Zoo is free!
- No extra costs No special version of Rhino is needed.
- No special server required Zoo will run on any Windows-based system.
- **Simple setup** Install Zoo on any system, and enter the licenses into the Zoo instead of the individual systems.
- **Robust** Network nodes will keep working even if the network connection or server is down.
- Check out License keys can be checked out so laptop users can disconnect from the network.



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#### Why a new Zoo 5?

- **Old** The core of Zoo 4.0 was written when Novell Netware was the dominant LAN operating system.
- Obsolete protocol Zoo 4.0 communicates using NetBIOS (Mailslots).
- Firewall unfriendly Administrators must open firewall ports on server, client, and routers.
- WAN unfriendly Accessing Zoo 4.0 across a WAN/VPN is difficult to impossible.
- Domain/Workgroup limited Rhino systems must belong to the same Windows Domain/Workgroup as the system running Zoo 4.0.



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#### What's new in Zoo 5?

- New! Zoo 5 is a brand new version, not an upgrade.
- **Standard Internet Protocol Support** Clients communicate with Zoo 5 using HTTP.
- **Firewall Friendly** Administrators no longer need to open firewall ports on client machines or routers.
- Limited License Check Out Zoo 5 allows the administrator to specify the license check out duration.
- **3rd Party Plug-in Support** Zoo 5 allows 3rd party plug-in developers to add support for their products to the Zoo.



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### What supports Zoo 5?

- Rhino 5 supports Zoo 5.
- Rhino 5 does not support Zoo 4.0.
- Rhino 4.0 does not work with Zoo 5.
- You can run both Zoo 4.0 and Zoo 5 running on the same network, and even installed on the same system "side by side".



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### Service Release 6 (SR6)

- Support added for Brazil 2.0, Bongo 2.0, Flamingo nXt and Penguin 2.0 licenses.
- Rhino 5 SR6 includes a new license manager client (LM) that allows Brazil 2.0,
   Flamingo nXt and Penguin 2.0 to support Zoo 5.
- When an above product needs a license from a Zoo, the LM attempts to obtain a license from the Zoo 5 server.

If no license was obtained or if the Zoo 5 server was not found, then the LM tries to obtain a license from the Zoo 4.0 server.



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### New in Service Release 8 (SR8)

- License monitoring Zoo now allows license monitoring from a
  web browser. Just visit the Zoo's status page.
  http://<zoo\_server\_host\_name>/status.
- **Serial number exporting** Zoo can now export a commaseparated-value (CSV) file that contains the serial numbers (not CD keys) of all licenses maintained by the Zoo.



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### What is required to run Zoo 5?

- Any Windows XP or greater system with a network connection.
- Microsoft .NET Framework 4.
- Zoo 5 is a 32-bit application.



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### How do you get started?

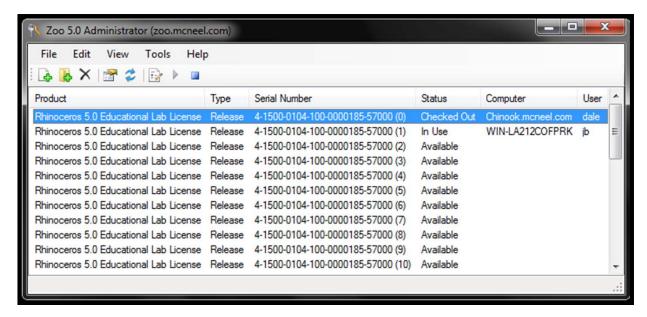
- Download and install Zoo 5 on a Windows-based system.
- Open TCP Port 80, for both incoming and outgoing traffic, on firewall software that is running on the system.
- Run **ZooAdmin** and add your Rhino 5 CD-Keys.
- Install Rhino 5. During the installation, select Network Node as your license type.
- Run Rhino, and specify either the host name or IP address of your Zoo server.



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#### The Zoo Administrator

Primary management tool





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#### The Zoo Administrator

Add licenses





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### Adding Rhino 5 licenses

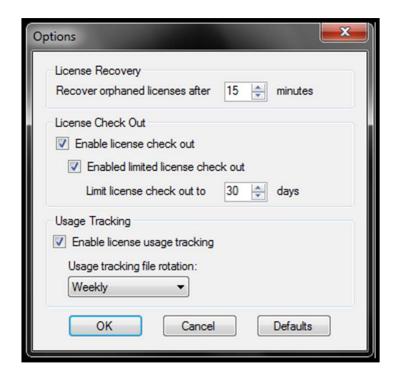
- When you add a Rhino 5 license, you will be asked to validate the license online.
- Critical: if you are upgrading to Rhino 5, you need to keep track of which previous version CD-Key you used to upgrade.
- You can only use each previous version CD-Key once.
- The only piece of information used during license verification is your CD-Key, which is included when you buy Rhino.



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#### The Zoo Administrator

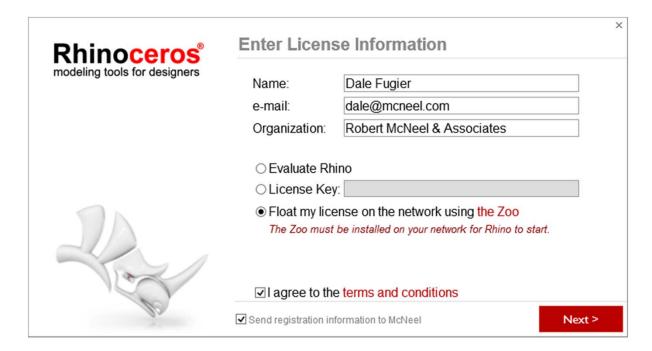
• Configure options





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### **Installing Rhino**

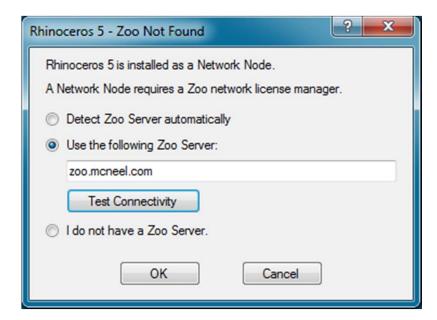




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#### Run Rhino

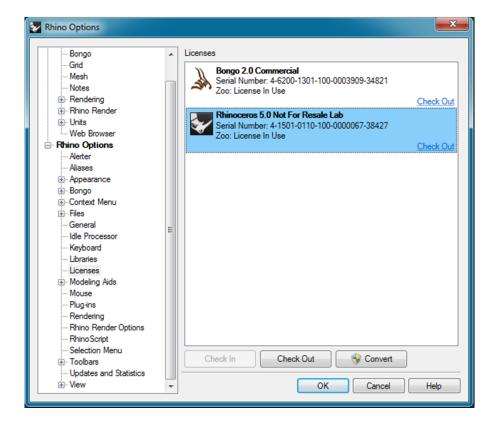
Specify name of Zoo server





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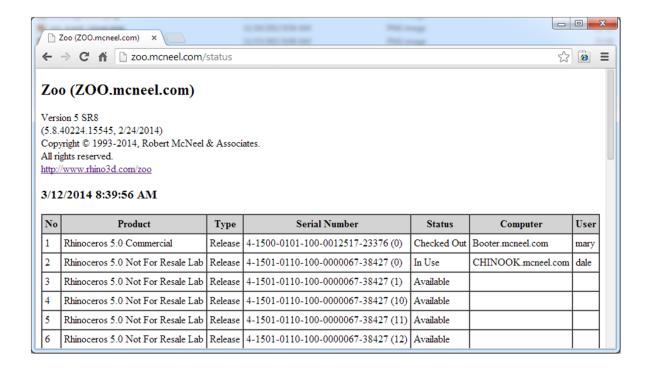
#### **View Licenses**





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#### **Monitor Licenses**





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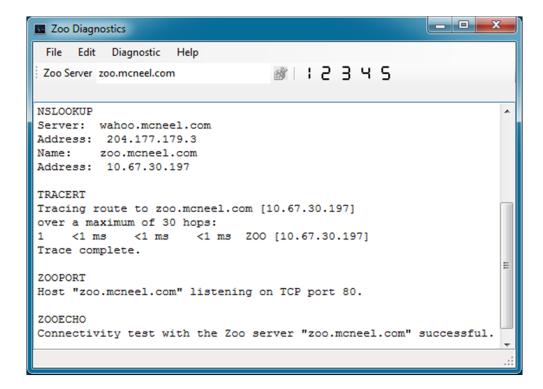
### **Zoo Diagnostics**

- The Zoo Diagnostics utility runs on a Rhino 5 workstation.
- Provides a number of useful network diagnostics to assist you in troubleshooting connectivity issues between Rhino workstations and Zoo servers.
- Allows you to view and modify the name of Zoo server used by Rhino workstations. The Zoo server name is stored in the Windows Registry.
- http://wiki.mcneel.com/zoo/zoo5diagnostics



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### **Zoo Diagnostics**





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### **Zoo Support**

#### Help

http://docs.mcneel.com/zoo/5/en/index.html

#### Wiki

http://wiki.mcneel.com/zoo/zoo5

#### **Support**

http://discourse.mcneel.com/category/zoo

#### **Email**

tech@mcneel.com

#### **Development**

http://wiki.mcneel.com/developer/zoo



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### **Helpful Links**

**Dale Fugier** dale@mcneel.com

Rhino website www.rhino3d.com

Rhino Support www.rhino3d.com/support

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