

## InfraStruXure Manager Server Appliance v4.x and PowerChute Network Shutdown

### Abstract

This Application Note explains how to gracefully shut down servers/workstations using PowerChute Network Shutdown and a UPS Network Management Card as well as monitor the UPS through APC's InfraStruXure Manager 4.x Server Appliance.

### InfraStruXure Manager v4.x

InfraStruXure Manager is a server appliance that is accessed remotely from client servers and workstations through Microsoft Internet Explorer. InfraStruXure Manager provides centralized management of up to a maximum of one thousand APC devices residing on either your corporate public Local Area Network (LAN) and/or the APC private LAN. The APC private network monitors APC devices connected through a hub to InfraStruXure Manager's "APC LAN" port. The maximum number of devices that can reside on this private network is 253. InfraStruXure Manager connects to the corporate public LAN through its "User LAN" port. The "User LAN" connection allows the management of APC devices on your corporate public LAN.

Note: For more information regarding InfraStruXure Manager and how it relates to your network, please refer to Application Note #66.

### PowerChute Network Shutdown

PowerChute Network Shutdown is a client-based service, which communicates with the UPS Network Management Card to provide graceful, unattended shutdown of various servers and workstations over a Local Area Network (LAN) and/or a Wide Area Network (WAN). PowerChute Network Shutdown communicates with the UPS Network Management Card on the local network segment using UDP broadcasts. PowerChute Network Shutdown also communicates with clients that are outside the local network segment using Unicast broadcast. This broadcast ability allows PowerChute Network Shutdown to support virtually an unlimited number of client servers and workstations.

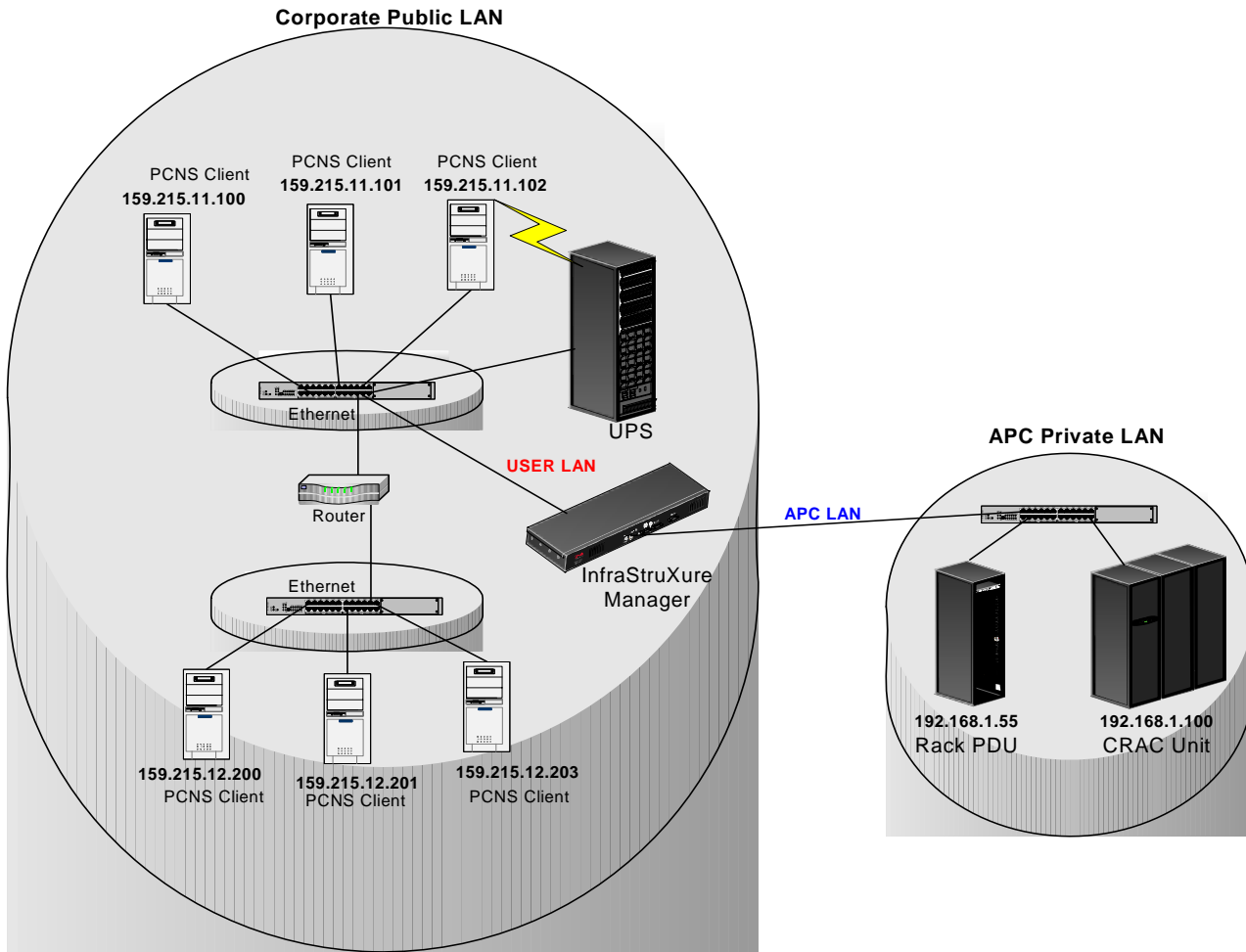
Note: For more information regarding the communication of PowerChute Network Shutdown, please refer to Application Note #20.

## Application

PowerChute Network Shutdown (PCNS) is a client based shutdown service, which is installed on the servers and workstations you require to gracefully shutdown. The UPS Network Management Card initiates the notification and shutdown of servers and workstations that have the PCNS service installed. The Network Management Card generates events, configured within the PCNS client software, which initiate the server and workstation graceful shutdown process. In order to utilize this functionality, the UPS Network Management Card must be configured on the public corporate LAN. If an InfraStruXure Manager has already discovered the UPS on the APC Private LAN, you would need to remove the UPS from the APC Private LAN, and reconfigure the UPS Network Management Card network settings, with an IP address, Subnet Mask, and Default Gateway that will allow it to reside on the corporate public LAN. Please refer to the Network Management Card configuration and operation manual. This can be obtained from APC's website: [http://sturgeon.apcc.com/techref.nsf/partnum/990-6015G/\\$FILE/990-6015G-EN.pdf](http://sturgeon.apcc.com/techref.nsf/partnum/990-6015G/$FILE/990-6015G-EN.pdf)

Once this step is complete, the UPS Network Management Card would then be rediscovered, within InfraStruXure Manager, by adding this device, specifying the newly assigned corporate public LAN IP address. Please refer to the InfraStruXure Managers "On-Line Help" section for how to add devices.

After the UPS has been discovered on the corporate public LAN, PCNS would then be installed on each of the servers and workstations that are to be gracefully shutdown. Please refer to the PowerChute Network Shutdown Installation and Operation manual. This can be obtained from APC's website: <http://sturgeon.apcc.com/techref.nsf/partnum/npn-00195>



## Conclusion

In conclusion, PowerChute Network Shutdown (PCNS) is a client based shutdown service which is installed on the servers and workstations required to gracefully shutdown. The UPS Network Management Card communicates with the client-based service for notification of graceful shutdown. To utilize this functionality the UPS Network Management Card must be configured to reside on the corporate public LAN. In addition, the UPS, can be still be monitored by InfraStruXure Manager by discovering the new IP address within InfraStruXure Manager.