

Common Configurations to Multiple Network Devices (C2MND)

NDP Research – Tech Note

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Tech Note Number	NDP-TN-101
Problem	Manually deploying common configuration parameters to numerous devices is a time consuming process that requires individually connecting to each device and applying the configuration. This manual process is also prone to human errors.
Solution	The configuration deployment script is a Perl based configuration tool providing the ability to automatically deploy a common configuration to multiple devices. The script currently supports configuration via telnet or SSH. The script has been tested with Cisco, Juniper and Unix systems.
Core Technology Benefit	The script support multiple protocols and is intended to be vendor agnostic. Automating the configuration deployment with a script that requires minimal oversight reduces the overall deployment time while also allowing the engineer to concentrate on other tasks. Automating configuration deployment also reduces the potential human errors in deploying configurations. Once completed, the engineer is able to review log details from the script to ensure successful deployment to all devices.
Market	The script is applicable to any market that maintains a system/network requiring large scale deployment of configurations to multiple devices. This includes government and commercial.
Technology Readiness Level	6. System/subsystem model or prototype demonstration in a relevant environment.
Keywords	configuration, Perl, SSH, telnet, Cisco, Juniper.

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