

Cedar Imaging Implementation

Cedar is a new upgrade over *Alpine Pro* and *Alpine*. It is compatible for all types of windows operating systems. It will take less time for clone and deploy process compared to *Alpine* and *Alpine Pro*. There is no need of creating partition at the time of clone or deploy process.

There are essentially two steps involved in the imaging process.

Clone: - Cloning means copying the Master image to a remote server, from a master device.

Deploy: - Deploy refers replacing/copying the Cloned Master image from remote server to multiple devices.

1. Why ClnDepData.xml file is needed for Agent?

It contains the scheduled operation and other network information like **Task Id**, DHCP, Subnet mask, Gate way, Host name, Primary DNS & Secondary DNS.

2. Why NWDetailsBackupForCloneDeploy.txt file is needed for Agent?

This file contains network information for back up. It store's the Network type, adapter name, DHCP, Subnet mask, Gate way, Host name, Primary DNS & Secondary DNS. This file will create when client having **static IP case only**.

3. Why we want to change client with DHCP IP instead of Static IP address?

If the client system contains the static IP, following things will happen.

At the time of Clone: At the time of Cedar image processing, the image will be stored in file server with static IP only. On deploy, the same image (with same IP address) will store in multiple target machine. It causes duplication.

Solution: - Before executing the Cedar.exe, agent checks for DHCP is enable or not. If DHCP is disable (means client is having static IP) then agent will keep the back up of network information like DHCP, Subnet mask, Gate way, Host name, Primary DNS & Secondary DNS in *NWDetailsBackupForCloneDeploy.txt* and turns the client to DHCP and process the Cedar imaging operation. And the static IP and other values are set back at the time of sending acknowledge to server.

At the time of Clone: At the time of deploy, image with DHCP IP will be over written on the client and the new image contains different IP with old IP (the IP which existed before to deploy the image). This may causes confusion to customer.

Solution: - Here no need to convert the static IP to DHCP. But need to set back the static IP and other network information to client after acknowledgement process.

4. Priority between Alpine, Alpine Pro and Cedar?

If the client has *Cedar* upgrade, we have to give priority to *Cedar* or else we will use our old flow *Alpine* or *Alpine pro*.

Agent responsibilities for Clone or Deploy process:

- Creating registry key Cedar with string value 1.0 (or above).
- Creating CedarConfig.ini file containing the required parameters.
- Creating ClnDepData.xml for taking backup of network values.
- Creating NWDetailsBackupForCloneDeploy.txt for taking backup of network values.
- Execute Cedar.exe file.
- Deleting CedarConfig.ini, NWDetailsBackupForCloneDeploy.txt and ClnDepData.xml files.
- Clone or Deploy process is not handled by agent.
- Rebooting system is also not handled by agent.
- Creating of CedarClone.log or CedarDeploy.log files is not handled by agent.

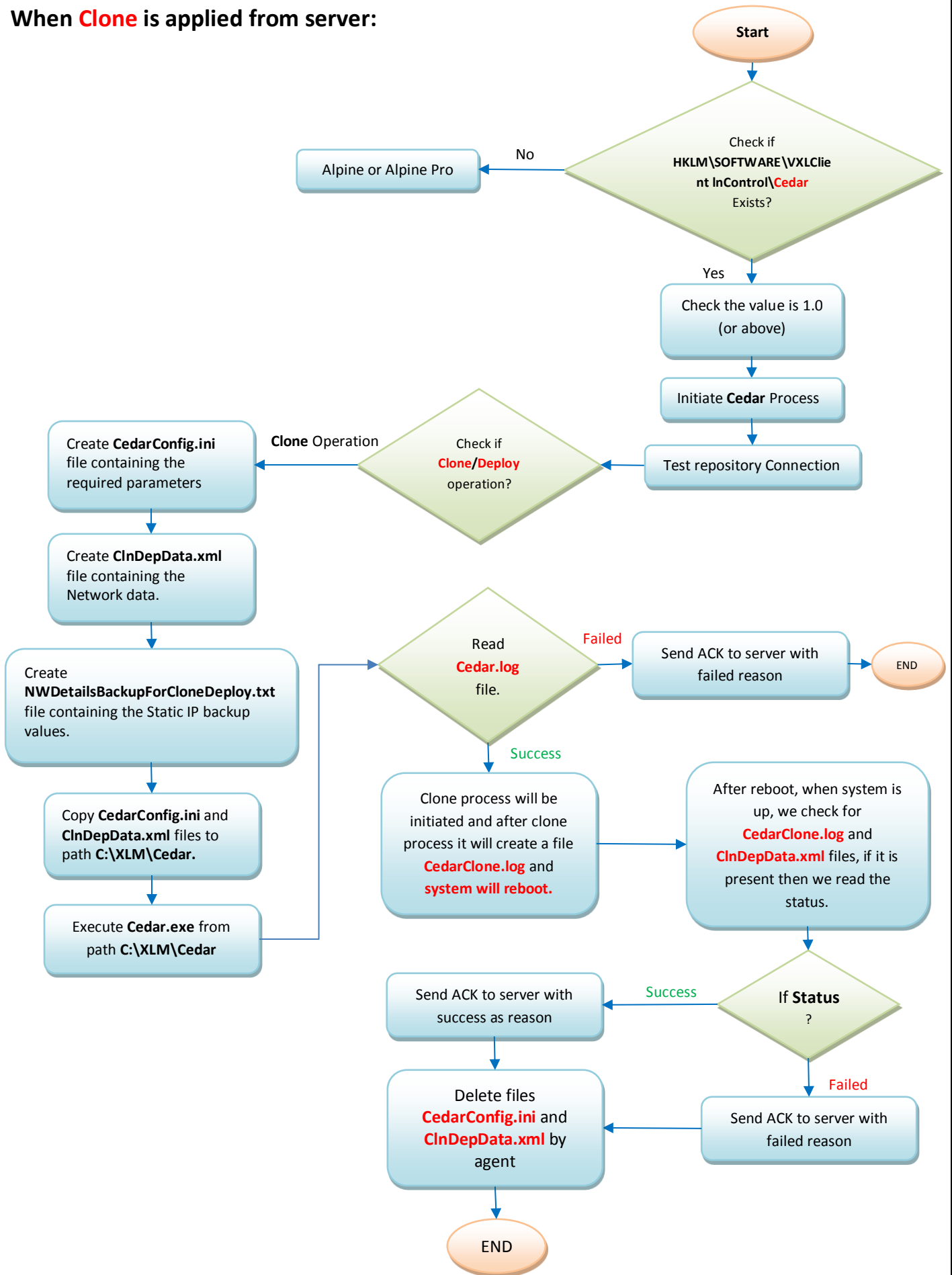
Bangalore team responsibilities for Clone or Deploy process:

- Creating Cedar.log file containing status of executable file.
- Clone or Deploy process is handled by Cedar.exe.
- After Clone process or Deploy, creating CedarClone.log or CedarDeploy.log files.
- After clone process, rebooting system.
- Creating Win10IoTBuild306.ffu file for deploy process.
- Creating of CedarConfig.ini file is not handled by Bangalore team.
- Creating of ClnDepData.xml file is not handled by Bangalore team.
- Creating of NWDetailsBackupForCloneDeploy.txt file is not handled by Bangalore team.
- Deleting CedarConfig.ini and ClnDepData.xml files is not handled by Bangalore team.

Flow charts for Clone and Deploy are below:

1. When **Clone** is applied from server
2. When **Deploy** is applied from server

When **Clone** is applied from server:



When **Deploy** is applied from server:

