



BEST PRACTICE: BARE-METAL RESTORE WITH RECOVERY ID

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Summary

This Best Practice explains the benefits of Recovery ID feature – a new Paragon Protect & Restore feature that reduces time and effort spent on disaster recovery operations involving the entire machine or its volumes restore.



The Challenge

The entire machine or system volume bare metal restore requires the local use of bootable media. We normally use bootable media when the OS of the target machine is down, meaning it cannot be accessed remotely. Even if it is accessible through the network, the restore of a locked volume is impossible. The only option is to start up the machine from a bootable image (CD/DVD, flash, or PXE) and then initiate the restore. Performing restores locally is highly inefficient and time-consuming for larger organizations, IT administrators deal with reluctantly. In addition, some office locations don't even have the IT staff on site, so non-IT personnel – perhaps the office manager – has to interact with the machine, increasing human error risk.



The Solution

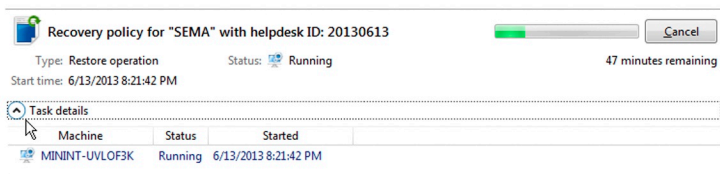
Paragon Protect & Restore and its Recovery ID minimizes the time and effort required for disaster recovery operations. The administrator no longer has to be physically present on-site as s/he sets up a one-time restore policy through the software console, assigning it with an automatically generated Recovery ID or with a custom Recovery ID.

The administrator then sends the Recovery ID value to anybody close to the faulty machine. That person only has to start up the failed computer from the WinPE-based recovery media and enter the Recovery ID when prompted.

```
X:\windows\system32\cmd.exe - startnet.cmd
x:\prn\winroot\program\restorepc.exe
x:\prn\winroot\program\restorepclib.dll
x:\prn\winroot\program\restoreptest.exe
x:\prn\winroot\program\seche.dll
x:\prn\winroot\program\settings.xml
x:\prn\winroot\program\ufsd.dll
x:\prn\winroot\program\ufsdapidll.dll
x:\prn\winroot\program\winwrap.dll
x:\prn\winroot\program\wnaspi32.dll
35 dir(s) moved.
1 dir(s) moved.
1 dir(s) moved.
Apply settings for network adapters
Registering Remote Management Components...
Installing Remote Management Service...
register service in the service control manager database
service is registered successfully
Configuring Remote Management Service...
perform self-configuration and rewrite configuration file
service configuration is performed successfully
Starting Remote Management Service...
The Paragon Remote Manager service is starting..
The Paragon Remote Manager service was started successfully.

Starting Recovery Assistant
Remote Management Recovery Assistant, (c) Paragon Software, 2013
Parsing config-file 'X:\PRM\Prm.BareMetalRecoveryInteractive.config'...
Please specify help desk identifier of recovery policy:
20130613
```

This way the Paragon Recovery Assistant is launched to connect the machine to the Administration Server. Once connected, the pre-configured restore operation starts, and can be monitored from both sides – remotely through the management console and locally at the recovery site.





```
Check recovery assistant configuration ...
Connecting to the PRM infrastructure: server = 'ARGUT', port = '60543' ...
Retrieving policy information by help desk id = '20130613' ...
For help desk id = '20130613' was found policy with id = 'dba34592-c247-44c0-be9f-faf9a48692f4'
Policy info: name = 'Recovery policy for "SEMA" with helpdesk ID: 20130613', one-shot = 'True', creation time = '6/13/2013 1:53:38 PM'
NetworkInterface: System.Net.NetworkInformation.SystemNetworkInterface
IP address: 169.254.124.156
NetworkInterface: System.Net.NetworkInformation.SystemNetworkInterface
IP address: 175.10.10.16
Failed to obtain IP address: multiple network adapters
Recovery Assistant stage: 0
Registering computer in the PRM infrastructure ...
Local computer info: machine name = 'MININT-UULOF3K', address = 'MININT-UULOF3K', id = 'f8e126eb-774a-4511-8035-cd4ee727f443'
Waiting for Directory replication ...
Waiting for Directory data arrival ...
Policy info: name = 'Recovery policy for "SEMA" with helpdesk ID: 20130613', id = 'dba34592-c247-44c0-be9f-faf9a48692f4', oneshot = True
Computer info: machinename = 'MININT-UULOF3K', address = 'MININT-UULOF3K', role = Agent, UimVolumeApp, RecoveryEnvironment
Linking local computer with policy ...
Submitting recovery policy task ...
Waiting for policy task finish ...
Recovery progress: 19%
```

Conclusion

Paragon Protect & Restore Recovery ID feature facilitates the restore process for both administrators and on-site personnel while eliminating human error risk and optimizing administrator's routine.

For additional information, please contact us at:

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