

# EXPRESSCLUSTER X 3.1 Feature Improvements

1st IT Software Division / IT Network Global Solutions Division NEC Corporation

October 1, 2011



## **EXPRESSCLUSTER X 3.1 Enhancements**



#### (\*) What is "Smart HA Cluster"?

In addition to failover due to any failure, it enables failover based on predictive detection of failure which helps system to achieve higher reliability.











#### Realize stable operation by avoiding system resource failure







#### Improves availability of application server by monitoring of Java virtual machine.



Page 5



Windows Linux

Solaris

#### Shortened failover time by localizing the failover unit



Page 6



Windows

Linux Solaris

# Group start/stop can be configured from GUI while being able to view the current settings at a glance



Page 7



Windows

Solaris

#### Child/Grandchild process can now be monitored by EXPRESSCLUSTER



#### Extended support of live migration feature (non-disruption failover)

Extended support for KVM (VMware, Hyper-V\*, XenServer is already supported) Even hypervisors without host OS (console OS) such as vSphere5 can be clustered





Windows

#### Managing cluster systems from Android devices.



Windows

#### Tweets server condition in case of any failure occurrence on the server





Windows

Linux

Solaris

SNMP Manager enables cluster management.

Enables integrated management including network devices etc





Windows

Solaris

Enables failure simulation from management console for testing the failover scenario

- "Verification Mode" is added to the management console
- Early discovery of mistakes in configuration, and confirms recovery of monitor resource.







### Easy setting of service resource

#### Automatically obtains the service name managed in service management console of Windows OS







Throughput/status of data mirroring can be monitored in real time.

By periodic information collection, problems such as performance degradation which was earlier difficult to detect can be recognized.

Amount of data mirrored among servers can be visualized.





### Mirror data bandwidth control (Network Shaping)

# Enables to limit the available bandwidth for data mirroring Bandwidth for data mirroring can be configured depending on network environment Even without dedicated line for mirroring, the impact can be minimized Network is occupied if data is big or Impact to other communications network bandwidth is narrow. Without network shaping..... Mirror data Specify the available bandwidth for data mirroring With network shaping..... Mirror data Ensures communication bandwidth

\*Windows version has been supported from previous version



Windows

Linux

## NEC Group Vision 2017

To be a leading global company leveraging the power of innovation to realize an information society friendly to humans and the earth



## **Empowered by Innovation**

