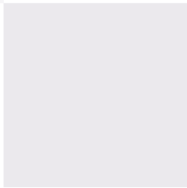
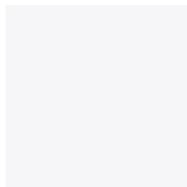





MCCS

Mantech Continuous Cluster Server




HA Leader



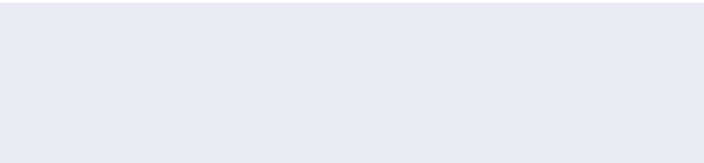
24X7 Technical Support



GS Certification

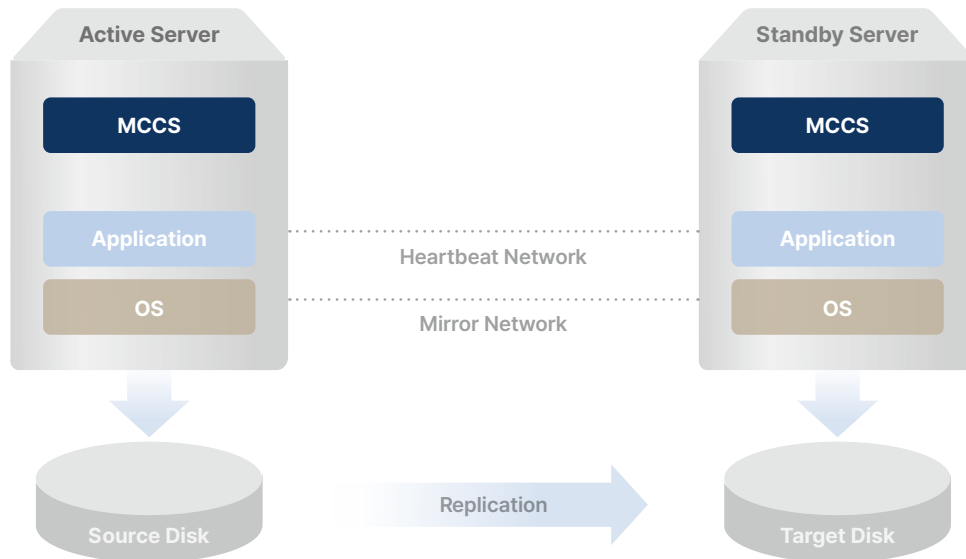


Company affiliated R&D center



An uninterrupted IT infrastructure is the most important element in your IT business.
If the service is interrupted by an unexpected situation, it causes a great loss

MCCS is a solution to maximize availability by preventing service interruption due to internal and external problems and ensuring service continuity. MCCS proactively minimizes failures, supports automatic recovery from failures, and ensures uninterrupted infrastructure configuration with standardized and automated recovery and integrated management.



MCCS ensures high availability and business continuity in various environments.



Benefits



Maximizes availability

- Secure service stability by detecting the failure of resources such as server, network, and storage
- Complement weakness and respond proactively due to system failure management



Reduces cost

- Minimize redundancy costs through SANless HA/DR configuration
- No additional hardware and storage required for HA



Improves manageability

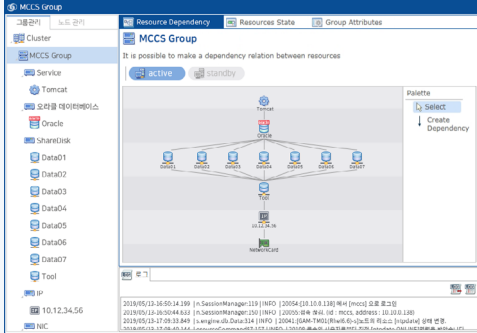
- Intuitive resource management with GUI
- Minimize manual tasks for recovery



Enhances Productivity

- Increase work productivity by minimizing downtime
- Reduce human error due to fault handling

MCCS WORKGROUP



MCCS supports high availability architecture configurations in a variety of environments and provides flexible failover depending on the configuration.

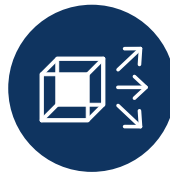
MCCS Workgroup supports a single HA configuration for both nodes.

Key features



Failure detection & Automatic recovery

- Real Time health check in hardware, network, applications, disk Status
- Automatic failover in case of failure



Various HA configurations

- Active Standby for failover
- Active Standby for multi group service
- Active Active for parallel configurations



Real time replication

- Local disk data replication
- Sync, Async, Semi sync support in various environment



Flexible compatibility support

- Support for X86 Windows, Linux OS
- Support for VMWARE, Hyper V, HCI, and Cloud



Web management Console

- Connect to web console, no installation required
- A variety of interfaces(Rest API, SNMP, CLI etc.)

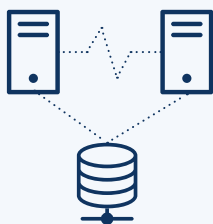


Virtual environment support

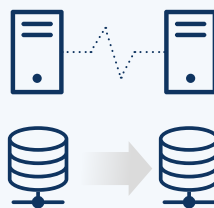
- Recognize temporary interruption or real failure
- Compatible with snapshot or migration functions of virtual machines such as VMware / OpenStack / HCI

Flexible configuration

External storage

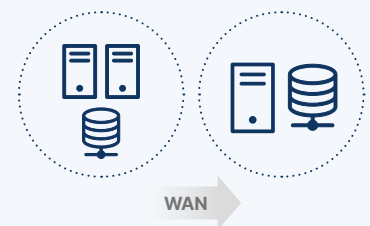


Local Disk Replication



Real time replication

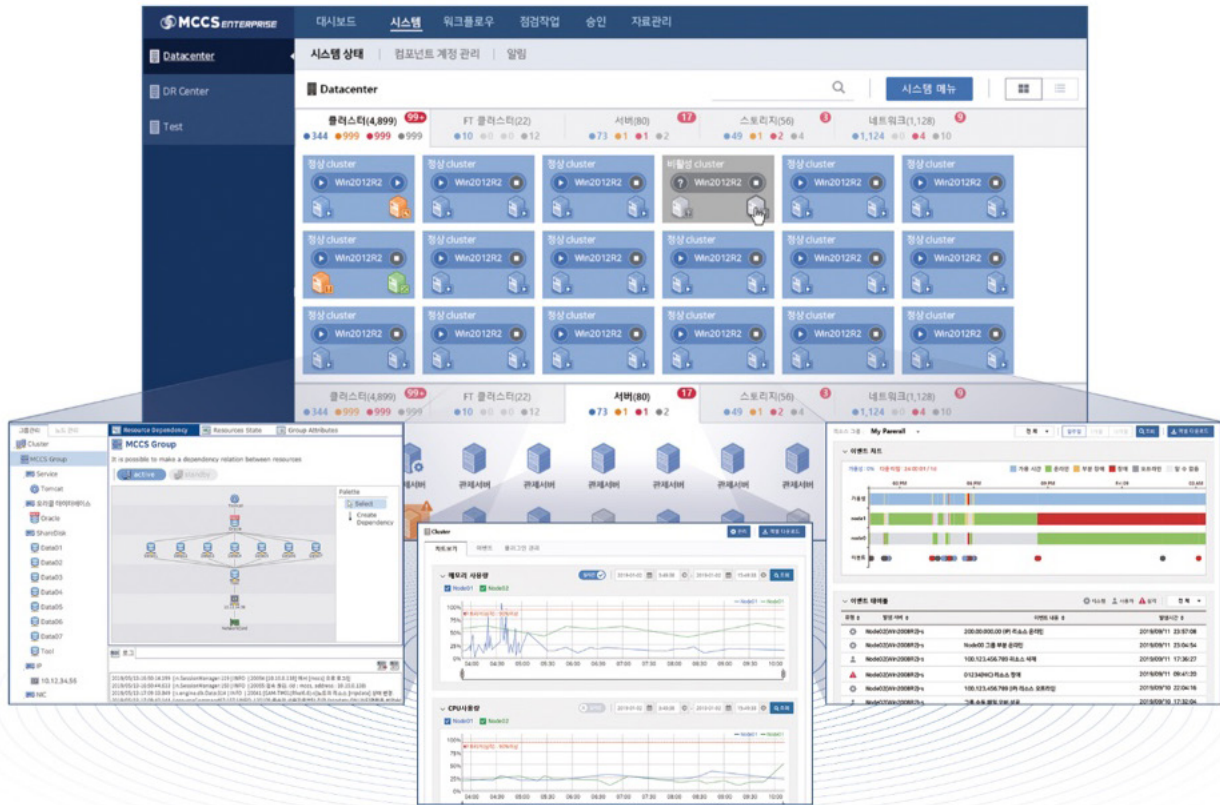
Remote HA/DR



Real time replication

MCCS ENTERPRISE

MCCS Enterprise can efficiently manage the availability status of the entire infrastructure system from a single console through the integrated management dashboard, and minimize downtime of operations through proactive protection.



Key features



Integrated management

- Intuitive Web GUI
- Customize dash board with various widgets
- Single node protection management



Proactive monitoring

- Monitoring system resources
- Set the critical value of the system
- Monitoring with various plugins and customizing



Hang detection

- OS, file system fail / hang detection
- Hang recovery with quorum server
- Generate Kernel dump for hang analysis



Split brain prevention

- SCSI reservation and LVM Tag
- Remote fencing
- Accurately determine serviceable nodes through quorum servers



Event chart

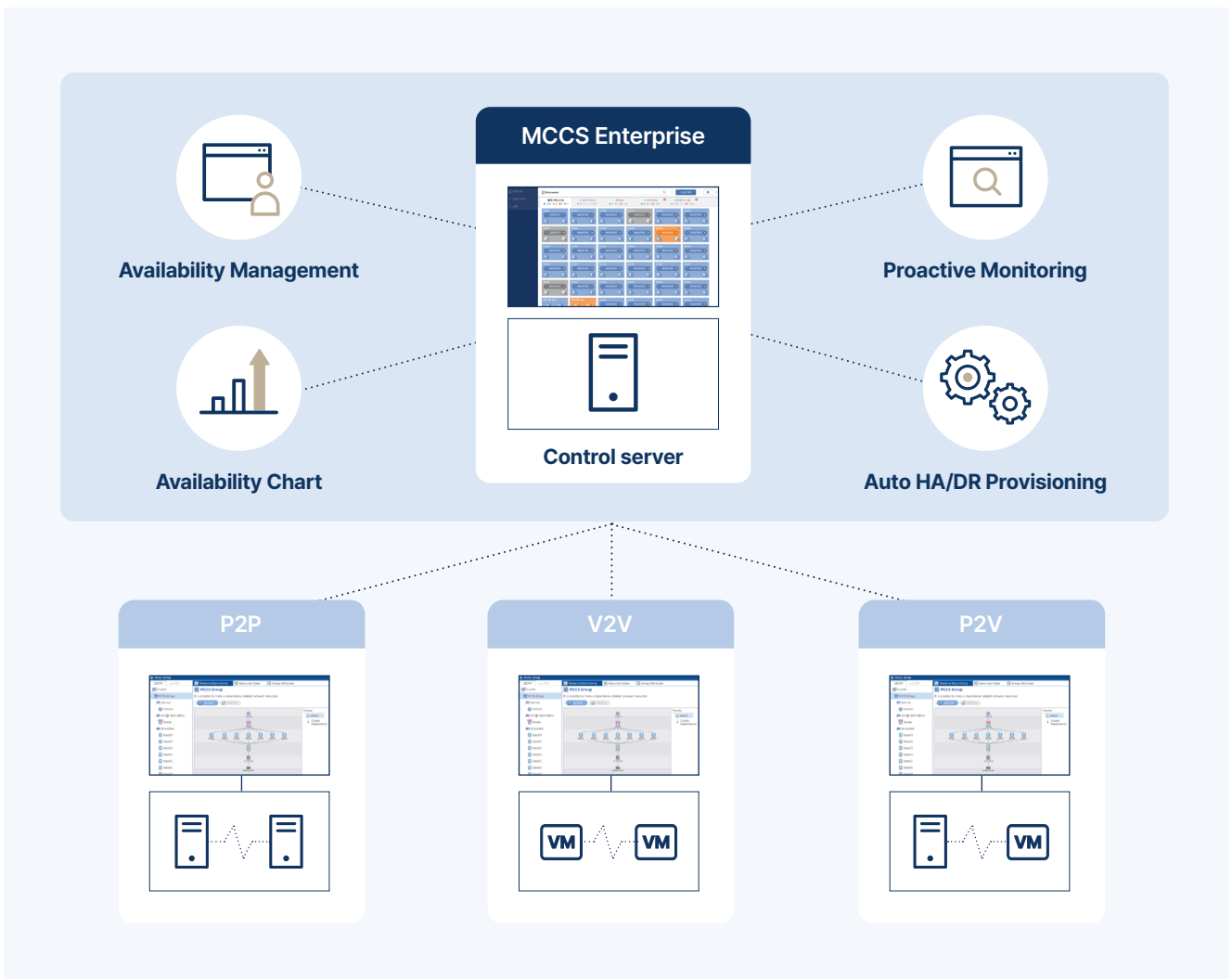
- Intuitive availability chart and reporting
- Stable system operation through failure event tracking



Alert

- Receive the alert via Email, SMS, and messenger
- Follow up when specific event occurs

MCCS ENTERPRISE Configuration



The control server, of MCCS Enterprise, provides a single consolidated view of multiple dispersed clusters. Intuitive GUI enables you to manage clusters, monitor additionally, recover server and get various reports easily.

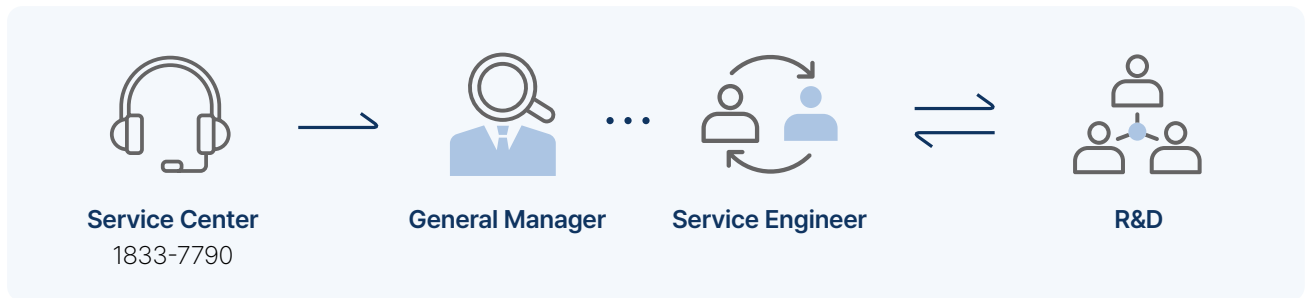
Supported Environment

Operating System	Storage	Cloud / Virtualization	Database	Web Application
<ul style="list-style-type: none"> • Windows 8 • Windows 10 • Windows 2008 • Windows 2012 • Windows 2016 • Windows 2019 • RHEL • CentOS • SUSE • Oracle • Ubuntu 	<ul style="list-style-type: none"> • DAS • SAN • NAS • iSCSI • Internal Disk (SAS/SSD) • EMC • Hitachi • NetApp • IBM • HP • Oracle • VxVM • LVM 	<ul style="list-style-type: none"> • Vmware vSphere • MS Hyper-V • RHV • Citrix Hypervisor • Oracle VM • HCI • Amazon AWS • MS Azure • KT Cloud • SK Cloud Z • Naver Business Platform • NHN Toast 	<ul style="list-style-type: none"> • Oracle • MS SQL • Tibero • My SQL • DB2 • MariaDB • PostgreSQL • Cubrid • MongoDB • SAP Hana • Sybase • Informix 	<ul style="list-style-type: none"> • Tomcat • Apache • JEUS • WebtoB • JBoss EAP • JBoss EWS • Weblogic • WebSphere • Jetty • IIS • Nginx

Technical Support

Mantech Solution offers reliable 24*7 technical support with professional service center and maintenance service. We have a 24 hour service center to response quickly to customer requests. And also, We operate online support for prompt and quick processing of customer requests and technical support services. Knowledge Portal also helps you to find the technical information about products.

| Service Center



| Online Support

<https://367.co.kr/mantech>



| Knowledge Portal

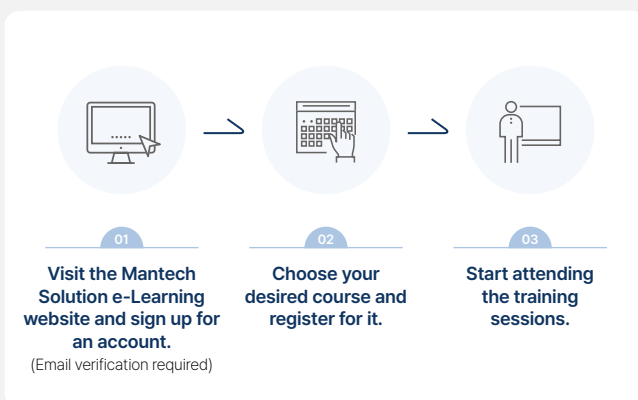
<https://kb.mantech.co.kr>



Training

Mantech Solution offers online training for MCCS to customers and partners. For detailed training information, please visit the Mantech Solution e-Learning website at <https://elearning.mantech.co.kr>.

| How to register for Training



| Training Curriculum

	OS	Detail
Basic	Windows	• MCCS installation, configuration changes, and operation
	Linux	• Overview of MCCS enterprise
Advanced	Windows	• Building on the Basic training, with a focus on troubleshooting
	Linux	• MCCS enterprise installation, configuration, and operation training