

# MasterScope JobCenter R15.1 Overview of Functional Enhancements

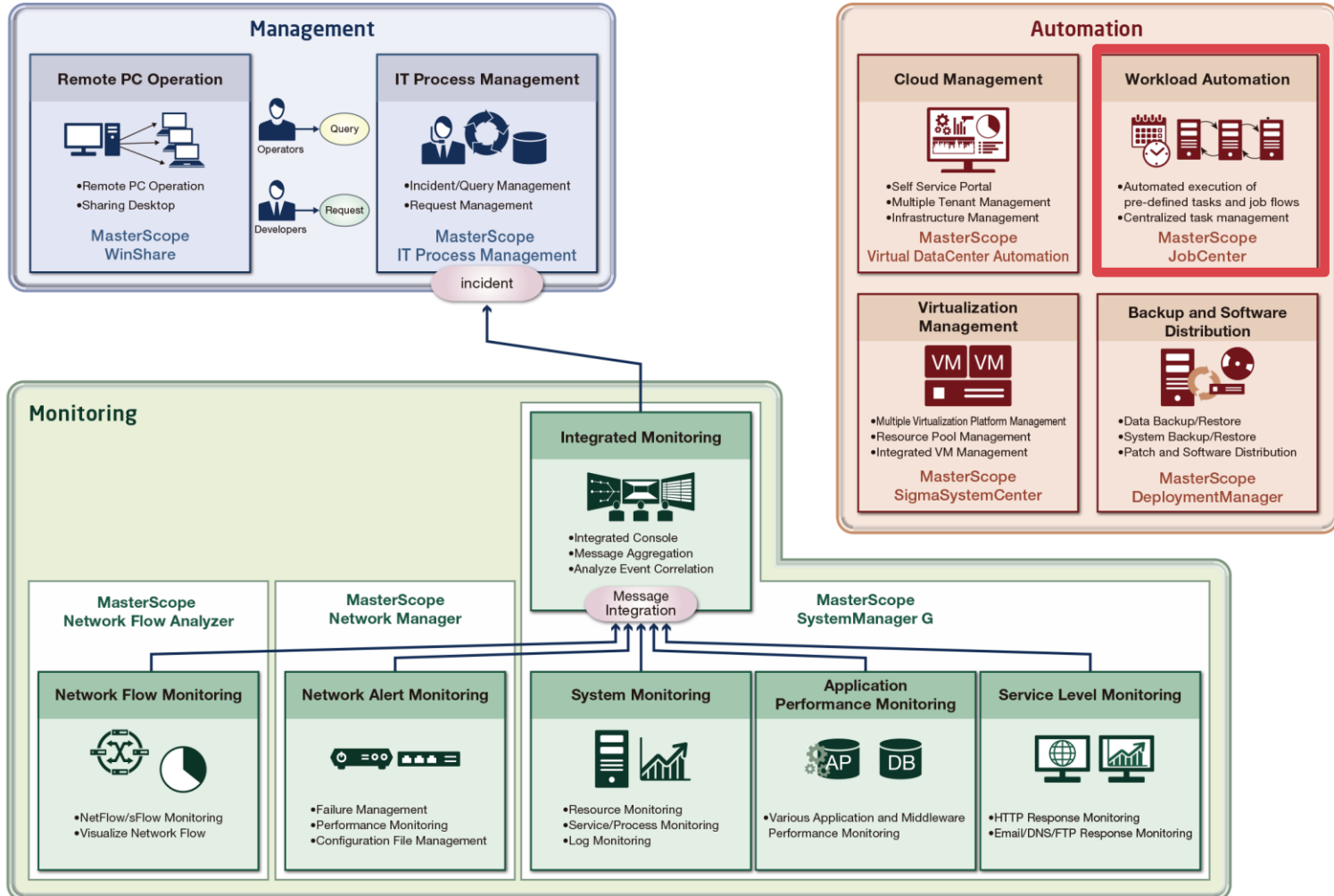
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NEC Cloud Platform Division



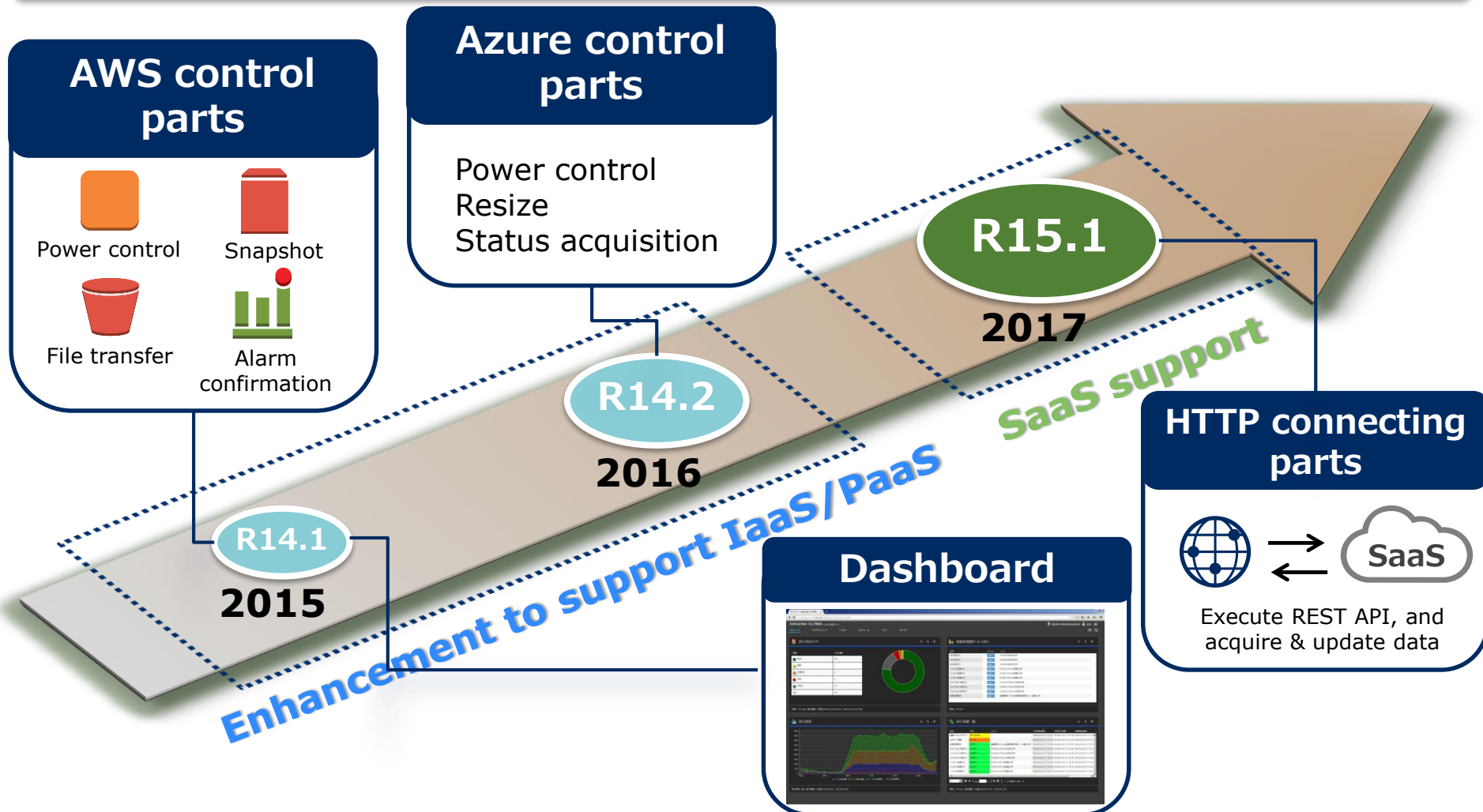
# JobCenter in MasterScope

MasterScope JobCenter automates routine work in system operations and support accurate and efficient system operation.



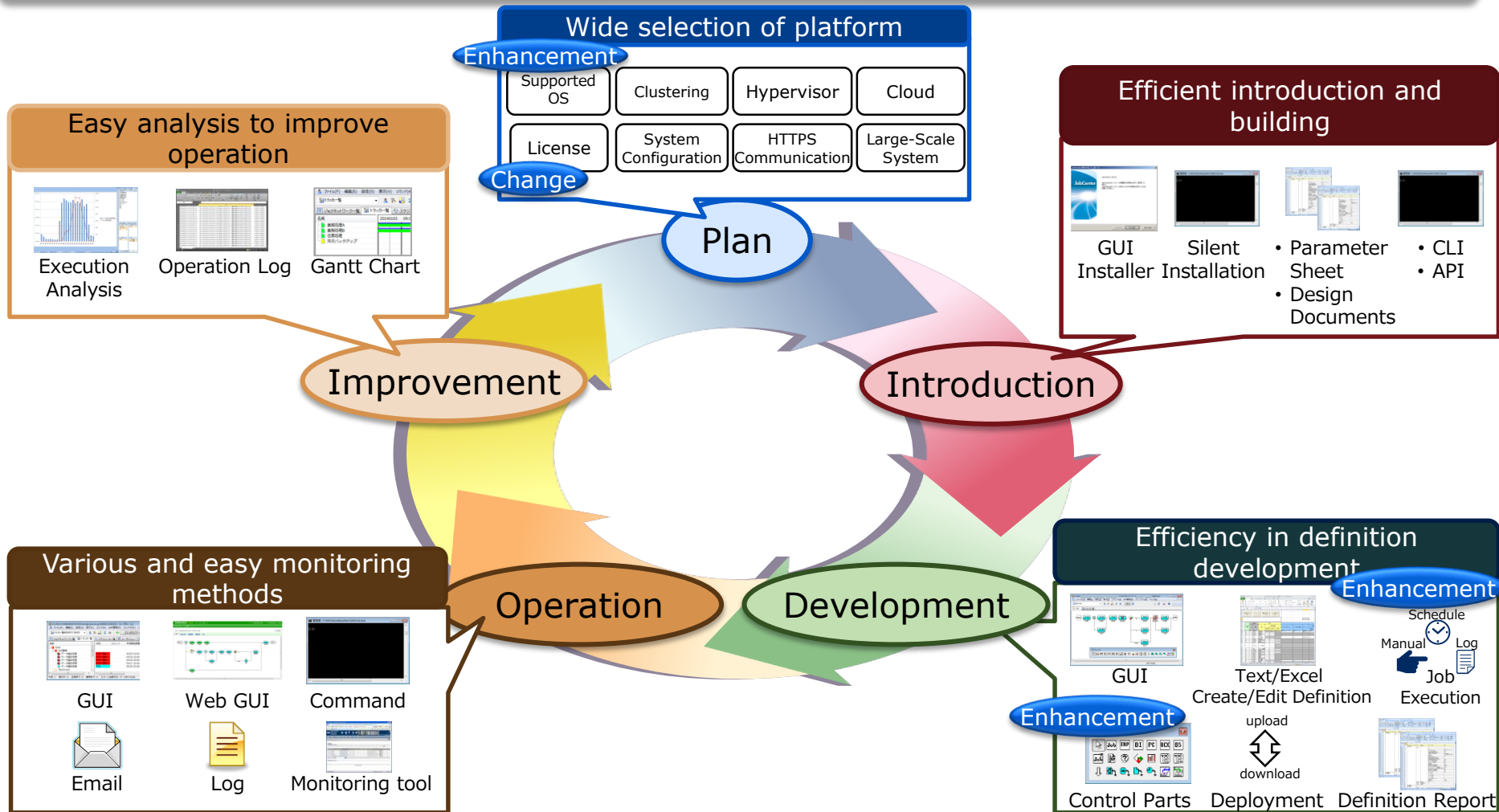
# Enhancement to support hybrid cloud environment

It becomes new job management platform supporting business in hybrid cloud era by enhancing IaaS/PaaS control and connecting parts with SaaS.



# Enhancements in MasterScope JobCenter 15.1

The features of JobCenter are enhanced to efficiently support the entire job management, including plan, introduction, definition development, operation, and day-by-day improvement of jobs.



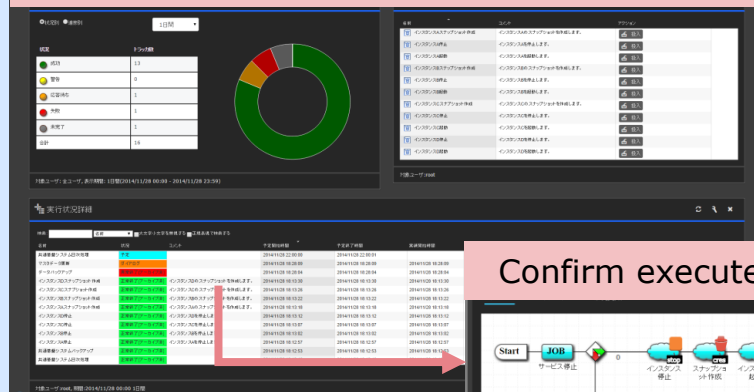
# Enhancement summary of MasterScope JobCenter R15.1

No	Enhancement point	Content	Effect	Standard/Option
1	Enhancement in cloud linkage parts	JobCenter provides parts to send HTTP request as Advanced Custom Job parts. User can easily use API (REST API, etc.) provided by cloud service, etc. It makes development efficient.	Development efficiency	Standard
2	Enhancement in trigger to start job network	It enables starting job network triggered by message (keyword) output to log.	Operation improvement	Standard
3	Automated time shift when displaying execution monitoring screen (Tracker list)	Function to shift display period of Tracker list automatically according to current time is enhanced. When always running CL/Win in operations, it can display current tracker all the time.	Operation improvement	Standard
4	Enhancement in reference function of Standard output log during job execution	User can refer to output of unit job in real time. It makes easy to grasp execution status of job which runs for a long time.	Operation improvement	Standard
5	Enhancement when placing Custom Job parts	Custom Job parts can be select from group to place it.	Development efficiency	Standard
6	Ease limitation under environment using different versions of JobCenter	Limitation is eased regarding support of event send and receive, and setting from GUI under environment using different versions of JobCenter.	Easy installation	Standard
7	Expansion in Supported OS	Windows Server 2016, Oracle VM, KVM environment are supported.	Easy installation	Standard
8	Changes in license programs	It becomes easy to buy products because of changes in license programs.	Easy installation	-

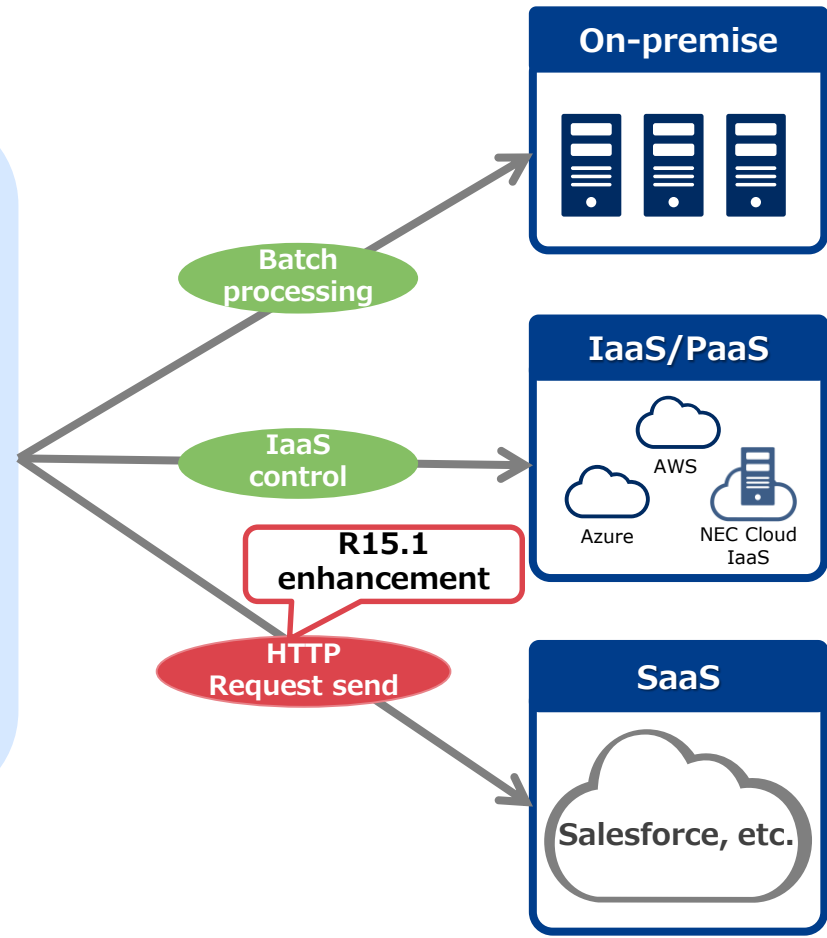
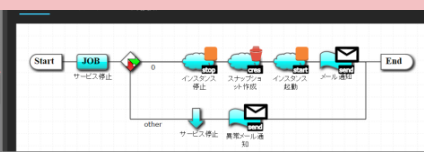
# 1. Enhancement in cloud linkage parts

To support linkage with cloud services, **HTTP connecting parts** are provided. It improves efficiency in job linkage between on-premise and cloud with AWS parts, Azure parts, etc.

Grasp job execution status by Dashboard



Confirm executed flow

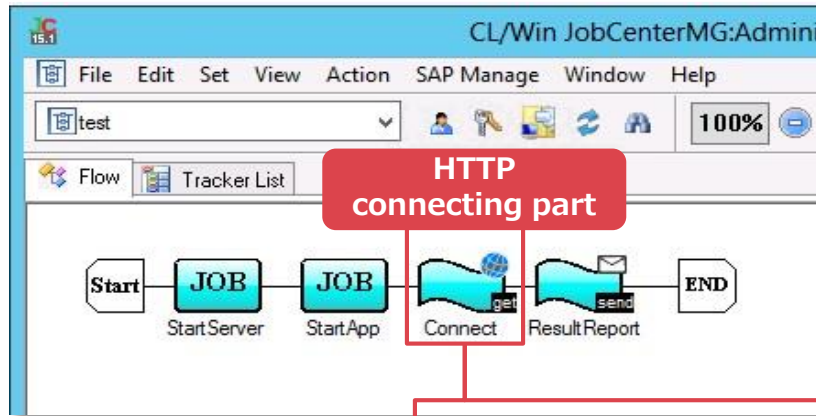




# 1. Enhancement in cloud linkage parts (Details of HTTP connecting parts)

JobCenter provides parts to send HTTP request by specifying parameters. It enables request to any Web services without writing any scripts.

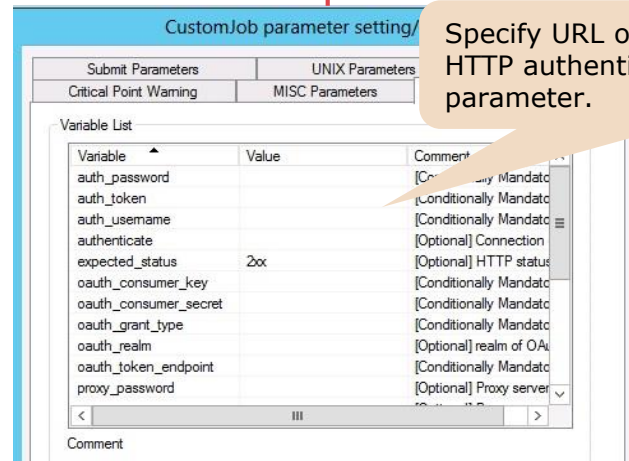
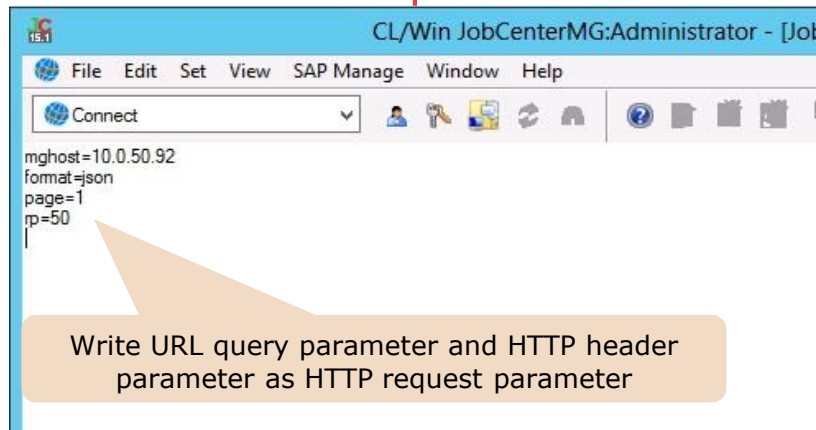
## ■ Example of utilization



## ■ List of HTTP connecting parts

Custom Definition Name	Icon Type	Comment
HttpDelete	Wave-HTTP-del	HTTP DELETE request
HttpGet	Wave-HTTP-get	HTTP GET request
HttpHead	Wave-HTTP-head	HTTP HEAD request
HttpPatch	Wave-HTTP-patch	HTTP PATCH request
HttpPost	Wave-HTTP-p	HTTP POST request
HttpPut	Wave-HTTP	

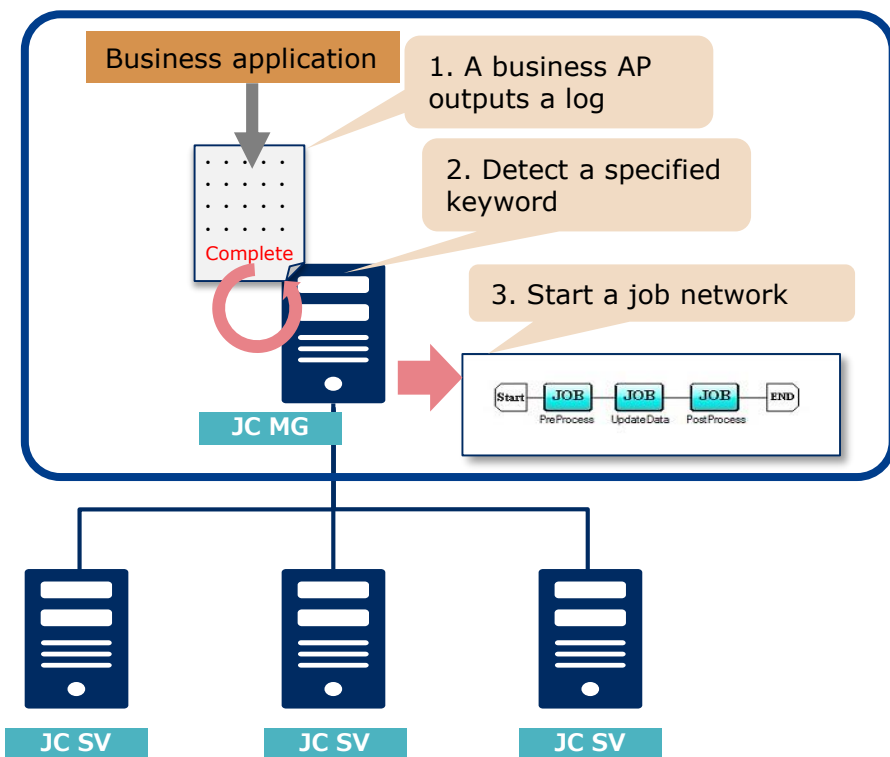
JobCenter provides parts to send each HTTP method such as Get, Post, etc.



## 2. Enhancement in trigger to start job network

**Starting job network triggered by log file is now supported.** JobCenter realizes automation in response to various demands including conventional schedule trigger.

### ■ Steps to start with Log trigger



### ■ How to set the trigger

Specify a monitoring target log file

Specify a keyword to trigger execution

- \* Monitoring target log file must exist on Job management server.
- \* Text format is only supported as Monitoring target log file.



# 3. Automated time shift when displaying execution monitoring screen (Tracker list)

Displaying content and time on Tracker list can be automatically changed according to current date and time. It reduces mistake and improves operability.

## R14.2 or earlier

When running client (CL/Win) always, it is required to change displaying period manually.

Status	Comment	Expected Start Time	Expected End Time
DONE	[ARCHI...]	20 16:09	09/20 16:09
DONE	[ARCHI...]	20 16:10	09/20 16:10
STOP	[ERRORI...]	20 16:11	09/20 16:11
DONE	[ARCHI...]	20 16:14	09/20 16:14
DONE	[ARCHI...]	20 16:14	09/20 16:14
STOP	[ERRORI...]	20 16:15	09/20 16:15
STOP	[ERRORI...]	20 16:25	09/20 16:25
STOP	[ERRORI...]	20 16:32	09/20 16:32

When the date is changed, Changing the period manually is required.

Confirm with wrong date because of over looking

## R15.1

Displaying period can be shifted automatically according current time.

- Setting example of automatic time shift function

Period setting

Start day: 2017 Year Sep 20 Day 0 : 0

Period value and unit: 1 Day

Automatic Shift Start Day Shift Timing : every 24 hours

Buttons: OK, Apply, Cancel, Help

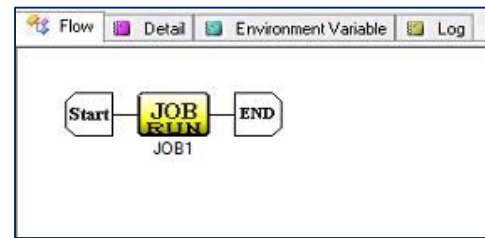
Operational load reduction

Reducing confirmation mistakes caused by forgetting changing date

# 4. Enhancement in reference function of Standard output log during job execution

User can confirm output content of executing job from GUI (CL/Win). It improves operability since user can check status in real time even if the job is executing for a long time.

## ■ During unit job execution



### R14.2 or earlier

\* Unit job detail information

Status	RUN
End reason	
Start time	2017/09/20 16:32:26
End time	
Exec machine	
Request ID	28385.JobCenterMG
Past end reason	

Standard output cannot be confirmed on GUI until job ends.

When a job is running for a long time, user is worried if it is running or not.

### R15.1

#####  
Data aggregation process  
#####  
2017/04/01 20:00 Job execution start  
2017/04/01 20:10 100 records processed  
2017/04/01 20:18 200 records processed  
2017/04/01 20:33 300 records processed

User feels easy because user can confirm status even during job execution.

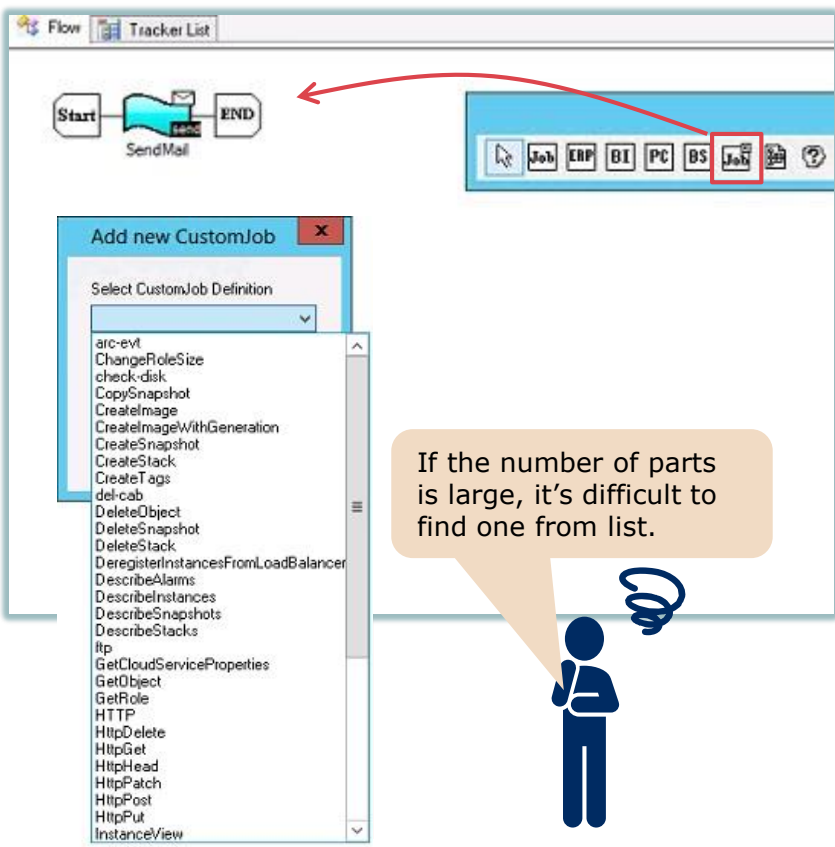
Even during Job execution, user can confirm standard output.

# 5. Enhancement when placing Custom Job parts

User can place Custom Job from group. It makes development of job network efficient.

## R14.2 or earlier

Select a part from list of Custom Job definition

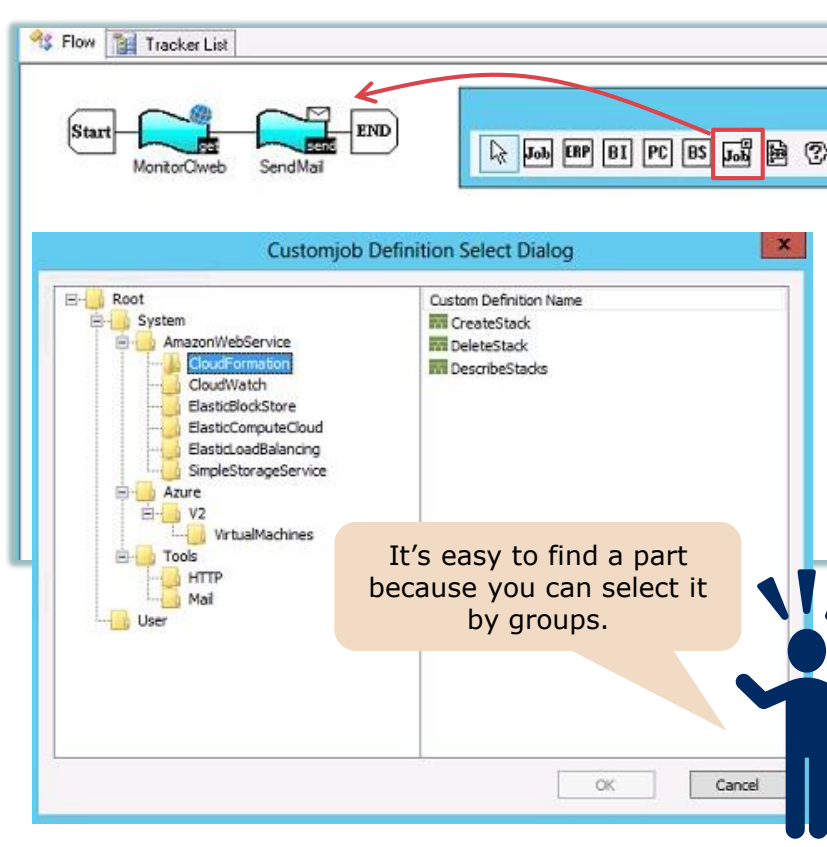


arc-evt  
ChangeRoleSize  
check-disk  
CopySnapshot  
CreateImage  
CreateImageWithGeneration  
CreateSnapshot  
CreateStack  
CreateTags  
del-cab  
DeleteObject  
DeleteSnapshot  
DeleteStack  
DeregisterInstancesFromLoadBalancer  
DescribeAlarms  
DescribeInstances  
DescribeSnapshots  
DescribeStacks  
ftp  
GetCloudServiceProperties  
GetObject  
GetRole  
HTTP  
HttpDelete  
HttpGet  
HttpHead  
HttpPatch  
HttpPost  
HttpPut  
InstanceView

If the number of parts is large, it's difficult to find one from list.

## R15.1

Select a part from Custom Job definition group



Customjob Definition Select Dialog

- Root
  - System
    - AmazonWebService
      - CloudFormation
      - CloudWatch
      - ElasticBlockStore
      - ElasticComputeCloud
      - ElasticLoadBalancing
      - SimpleStorageService
    - Azure
      - V2
      - VirtualMachines
    - Tools
      - HTTP
      - Mail
    - User

Custom Definition Name

- CreateStack
- DeleteStack
- DescribeStacks

It's easy to find a part because you can select it by groups.

## 6. Ease limitation under environment using different versions of JobCenter

Limitation in support of event send and receive parts, and support of setting from GUI is eased when using different versions of JobCenter.

R14.2 or earlier

- SV machine registration and addition of queue can be done by command operations (operation by GUI is not supported.)
- Unit job execution is only supported as linkage between MG and SV. (event send and receive is not supported.)



R15.1

- SV machine registration and addition of queue **can be done by GUI**
- Unit job and **event send and receive** are supported as linkage between MG and SV.

# 7. Expansion in Supported OS

JobCenter now supports the following platforms as operating environment.

## Client (CL/Win)

- Windows Server 2016

## Job management server (MG), Job execution server (SV)

- Windows Server 2016
- KVM (RHEL 6, 7)
- Oracle VM 3

# 8. Changes in license programs

JobCenter make its license programs simple from R15.1.

## License list before R14.2

License name
MasterScope JobCenter MG (IA64)
MasterScope JobCenter MG (IA32, x86-64)
MasterScope JobCenter SV (T0)
MasterScope JobCenter SV (T1)
MasterScope JobCenter SV (T2)
MasterScope JobCenter SV (T3)
MasterScope JobCenter SV (T4)
MasterScope JobCenter CL/Win
MasterScope JobCenter CJC Option
MasterScope JobCenter for ERP Option
MasterScope JobCenter for ERP Option (SV)
MasterScope JobCenter for BI Option
MasterScope JobCenter for BI Option (SV)
MasterScope JobCenter Definition Helper (5 Licenses)
MasterScope JobCenter Definition Helper (Additional 5 Licenses)
MasterScope JobCenter for WebOTX BS Option
MasterScope JobCenter CL/Web
MasterScope JobCenter Media

## License list after R15.1

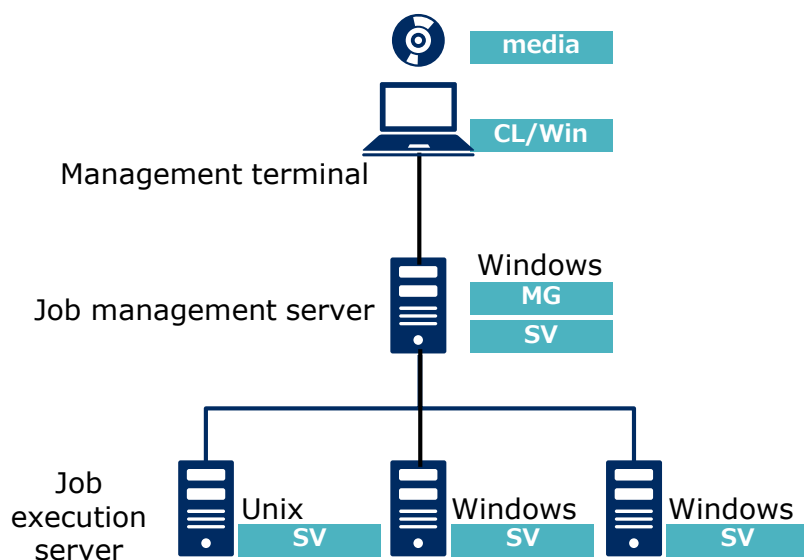
License name
MasterScope JobCenter MG for Unix
MasterScope JobCenter MG for Windows/Linux
MasterScope JobCenter SV for Unix
MasterScope JobCenter SV for Windows/Linux
MasterScope JobCenter CL/Win (1 License)
MasterScope JobCenter CL/Win (5 Licenses)
MasterScope JobCenter for ERP Option
MasterScope JobCenter Definition Helper (5 Licenses)
MasterScope JobCenter for WebOTX BS Option
MasterScope JobCenter CL/Web
MasterScope JobCenter Media



# Example of License Change

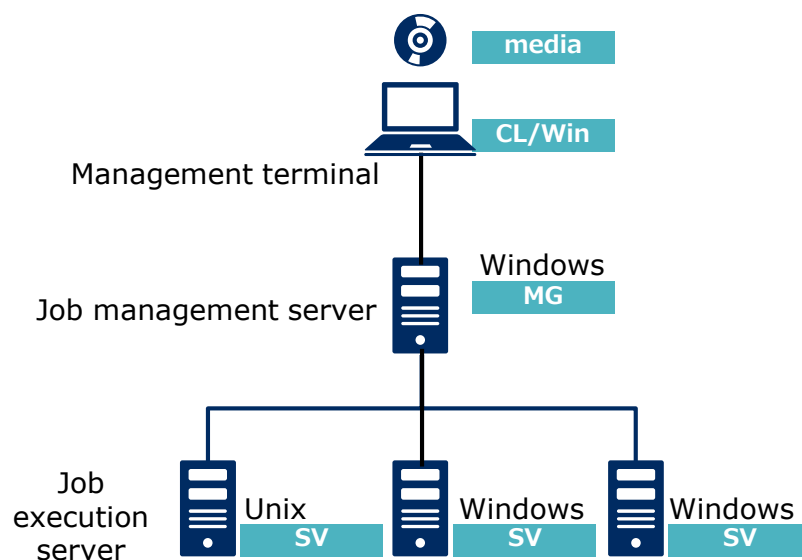
1. Management terminal×1
2. Windows×1 for Job management server. Jobs are executed on job management server.
3. Windows (Tier0) ×2, Unix (Tier3) ×1 for Job execution server

## R14.2 or earlier



License name	Qty
MasterScope JobCenter Media	1
MasterScope JobCenter MG (IA32, x86-64)	1
MasterScope JobCenter SV (Tier 0)	3
MasterScope JobCenter SV (Tier 3)	1

## From R15.1



License name	Qty
MasterScope JobCenter MG for Windows/Linux	1
MasterScope JobCenter SV for Windows/Linux	2
MasterScope JobCenter SV for Unix	1

**[Note]**

- For SV, licenses based on each OS types are required. In this case, Unix×1, Windows×2 are required.
- SV license is not required on MG, Required number of SV for Windows is 2.