TopologyCmd
Batch Registration and Setting Detail Confirmation of Monitoring Definitions
File Specifications

Revision History

Edition	Chapter/Section	Details
First Edition	-	-

Contents

1. Preface

This document consists of the file specifications for batch registration and setting detail confirmation of the topology view monitoring definitions performed by executing commands on the manager for MasterScope MISSION CRITICAL OPERATIONS Ver. 3.7.0/SystemManager Ver. 5.6.0/Application Navigator Ver. 3.3.0.1 or later.

2. Overview of file specifications

The topology view manages the agents in the system collectively and monitors the status. In addition to the conventional procedure to update the agent monitoring definitions from the console, a function to perform batch registration of agent monitoring definitions by applying the monitoring definitions described in a file in advance to the agents using a command line (this function is hereafter referred to as "import") is provided. A function to output the agent monitoring definitions to a file is also provided (this function is hereafter referred to as "export"). A manually updated monitoring definition file can be directly applied to agents through import. Moreover, the setting details can be confirmed in the file through export.

This document describes the file specifications to import and export using the command line on the manager. Import files and export files share the same specifications. This document describes the file specifications on the assumption of import file creation.

The file specifications vary depending on the agent monitoring function (service), and therefore they are described separately for each monitoring function. The list of monitoring functions that file specifications are described for in this document is shown below.

- Topology view
- Performance monitoring
- Process monitoring
- Windows service monitoring
- Application log monitoring
- Syslog monitoring
- Event log monitoring
- File monitoring
- System
- Application management

[Note]
- Monitoring functions that are not output during export cannot be used during import.
- Parameters that cannot be registered by batch registration such as the reporting settings and schedule settings must be specified in the dialog box. See Help.
- The supported platforms vary depending on the product. For details, see "TopologyCmd command manager platforms for each MasterScope product" below.
- The monitoring function "System" only supports Windows platforms.
- For the following functions, the report setting cannot be exported.
  - Topology view
  - Performance monitoring
  - Process monitoring
  - Windows service monitoring
  - File monitoring
- This function can be used to monitor remote hosts. Note that there are precautions specific to the remote host monitoring. For details, see the following sections.
- "2.3 Notes on remote monitoring agent"
- "4.2.2 (7) Extended performance monitoring object section [GROUP_EXTEND]" in Chapter 4 "Performance monitoring function"

2.1 Common specifications for monitoring functions (services)

The following precautions apply when creating an import file using the monitoring function of an agent (service), there are the following precautions.

- For import and export using the command line, see "MasterScope MISSION CRITICAL OPERATIONS/SystemManager/Application Navigator Command Reference (Help differences) TopologyCmd LIST / TopologyCmd IMPORT / TopologyCmd EXPORT".
- Create an import file for each monitoring function (service), and store the import files in the same directory. During export, an export file is created in the same directory for each monitoring function (service).
- The import file name of each function can be specified with any character string within 17 characters. However, the topology view is an exception, and "Topology.txt" must be specified. Note that the file name of the export file is fixed and cannot be specified during export.
- The character encoding and line feed codes of the import and export files when using the TopologyCmd command are "Character encoding: SJIS/Line feed code: CR+LF" for Windows manager, and "Character encoding: UTF-8 (without BOM)/Line feed code: LF" for UNIX manager (HP-UX (IPF) and Linux).
- Indents are added using the tab character in the file description examples in this document to improve readability, however deleting indents does not cause any problems. To add an indent, the tab character and one-byte spaces can be used. The export file is created with indents added using the tab character.
- The file is composed of a header part and a definition part. The product name, monitoring function name, etc., are described in the header part, and the definition details of the monitoring function are described in the definition part in the section ([XXX] to [END_XXX/ENDXXX]) and Key=Value formats. Sections have a hierarchy structure, and either a section or a Key, or both, are described in a section. A section without a parent section is described as the "root section".
- For the items where [Required] is described in the description in the "Value" column, the Key=Value line must be described when creating the import file. Items without [Required] are optional and the Key=Value line can be omitted. If it is omitted, the default value is applied.
- Items where "min. value to max. value" is described in the description in the "Value" column indicate the support range. Be sure to specify a value within the support range.
- Items for which "Do not describe when XXX=0" is described might be output during export. Monitoring operations are not affected if items that include such description are imported.
- Parameters that cannot be registered by batch registration such as the reporting settings and schedule settings must be specified in the dialog box.
- "!" which indicates negation must be specified directly before "=" as in "Key!=Value". If a space is inserted, it is recognized as part of the Key.
- To use a comment, add "#" at the beginning of a line to make the line recognized as a comment line.
- Some functions are not provided depending on the agent, and the functions that do not exist are skipped in the "Import/export section of each monitoring function" in the topology view during import.

2.2 Notes on importing/exporting from console

2.2.1 Notes on export file
- Files are created with Unicode character encoding during export on the console. However, System (configuration information monitoring) files are created with SJIS character encoding even if exported on the console.
- To import a file exported on the console using the TopologyCmd command, change the character encoding and line feed codes of the file to "Character encoding: SJIS/Line feed code: CR+LF" for Windows manager, and "Character encoding: UTF-8 (without BOM)/Line feed code: LF" for UNIX manager (HP-UX (IPF) and Linux) before executing the command.

2.2.2 Notes on import file
- To import on the console, create a file with "Character encoding: Unicode/Line feed code: CR+LF". However, create it in SJIS for System (the configuration information monitoring) even during import on the console.
- In the application management function, files that have been manually created and edited and files exported with TopologyCmd can only be imported by using the TopologyCmd command. (Such files cannot be imported on the console.)
- Some functions are not provided depending on the agent, and the functions that are not described in the "Import/export section of each monitoring function" in the topology view are skipped during import.

- In the exported file, the item name "USERCONFIGURATION" in the "Application instance section", which is a section of the application management function, is output under the item name "CONFIGURATION" with a Base 64 encoded password for connection definition. When describing a plain text password when creating an import file based on the export file, change the item name to "USERCONFIGURATION". When describing a Base 64 encoded password, use "CONFIGURATION" as is.

2.3 Notes on remote monitoring agent

- The remote monitoring agent is displayed in the result of TopologyCmd LIST, however it does not support TopologyCmd IMPORT and TopologyCmd EXPORT. (The management information and authentication information of a remote host, which are the setting items for the remote monitoring agent, do not support import and export.)

3. Topology view

This chapter explains the description details of the import and export files for the topology view.

Service name	Topology view
Service ID	1
Import file name	Topology.txt
Export file name	Topology.txt
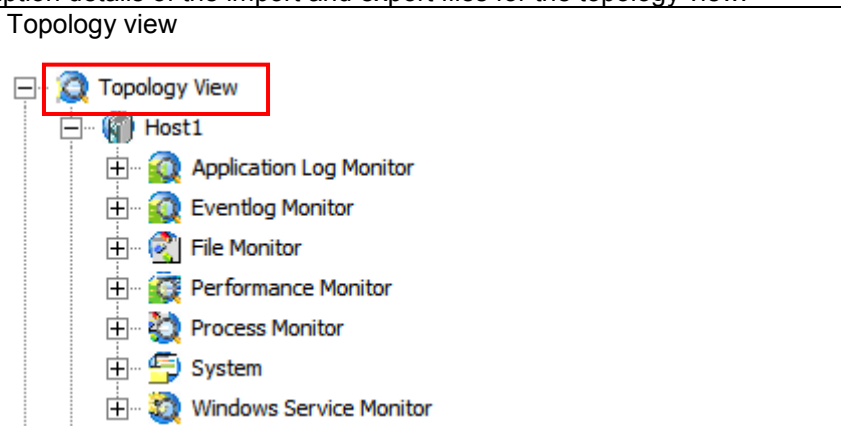
3.1 Overview

An import file example of the topology view is shown below.

```
FILE: Unified Management Framework
DESCRIPTION:
FUNCTION:TopologyView
VERSION:2.0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
[RELATED_SERVICE]
        SERVICE001=8,"Process monitoring",Process.txt
        SERVICE002=9,"Windows service monitoring",NTService.txt
        SERVICE003=7,"Performance monitoring",Performance.txt
        SERVICE004=12,"Application log monitoring",ApLog.txt
        SERVICE005=48,"Event log monitoring",EventLog.txt
        SERVICE006=78,"File monitoring",FileMonitor.txt
        SERVICE007=14,"System",System.txt
        SERVICE008=41,"ApplicationMonitor",ApplicationMonitor.txt
        SERVICE009=49,"Message monitoring", MessageView.txt
        SERVICE010=217,"Service port monitoring", PortMonitor.txt
[END_RELATED_SERVICE]

[HOST]
        HOSTNAME=Host1
        ErrorReport=0
        [REPORT]
                PatlitePolicy=1
                MailPolicy=1
                ActionPolicy=1
        [END_REPORT]
        Schedule=1
        ScheduleFile=SchImport_20161201103000.txt
[END_HOST]

[REPORT_DESCRIPTION]
...
[END_REPORT_DESCRIPTION]
```

Header part

Definition part

Import and export information for other functions

Report specification information

Schedule specification information

Host information

Report definition information

3.2 Details

3.2.1 Header part

As the character strings in the header part are fixed describe the following information as is.

FILE:Unified Management Framework	: Product name (Fixed)
DESCRIPTION:	: Not used (Fixed)
FUNCTION:TopologyView	: Function name (Fixed)
VERSION:2.0	: File version (Fixed)

3.2.2 Definition part

The definition part of the topology view is composed of the following four sections.

- Import/export section of each monitoring function
- Host information section
- Report specification section
- Report definition section

(1) Import/export section of each monitoring function [RELATED_SERVICE]

The section between the following start tag and end tag is the import/export information section.
Start tag: [RELATED_SERVICE]
End tag: [END_RELATED_SERVICE]
Root section. Describe the import/export information of each monitoring function in one line in this section.

Key	Value
SERVICEnnn	<Monitoring function ID>,"<Monitoring function name>",<Import/export file name>

* nnn is described in ascending order such as 001, 002 and so on.

For the monitoring function names and monitoring function IDs, see the table below.

Monitoring function name	Monitoring function ID
Performance monitoring	7
Process monitoring	8
Windows service monitoring	9
Application log monitoring	12
Syslog monitoring	44
Event log monitoring	48
File monitoring	78
System	14
Application management	41
Message monitoring	49
Service port monitoring	217

Note that the available functions vary depending on the products and agent machine platforms to be used. Describe the available functions in reference to "MasterScope products for each monitoring function" and "Agent platforms for each monitoring function" below.

Agent platforms for each monitoring function

Monitoring function name	Agent Platform √: Monitoring function installed				
	Windows	HP-UX	Linux	Solaris	AIX
Performance monitoring	√	√	√	√	√
Process monitoring	√	√	√	√	√
Windows service monitoring	√	Not Installed	Not Installed	Not Installed	Not Installed
Application log monitoring	√	√	√	√	√
Syslog monitoring	Not Installed	√	√	√	√
Event log monitoring	√	Not Installed	Not Installed	Not Installed	Not Installed
File monitoring	√	√	√	√	√
System	√	√	√	√	√
Application management	√	√	√	√	√
Message monitoring	√	√	√	√	√
Service port monitoring	√	√	√	√	√

(2) Host information section [HOST]

The section between the following start tag and end tag is the host information section.

Start tag: [HOST]
End tag: [END_HOST]
Root section. Describe the agent definition.
The description of this section ([HOST] to [END_HOST]) cannot be omitted. (HOSTNAME as a key can be omitted, however, this section must be described.)

Key	Value
HOSTNAME	<Host name> - This is ignored when described in an import file. The host name of the export target is output during export.
ErrorRoport	Enables or disables "Report only when the host stopped". 0: Do not report * Default 1: Report
Schedule	Describes whether the schedule settings exist by using a numerical value. 0: No schedule setting exists * Default 1: There is a schedule setting.
ScheduleFile	Specify the import file name of calendar/schedule information.

(3) Report specification section [REPORT]
The section between the following start tag and end tag is the report section.
Start tag: [REPORT]
End tag: [END_REPORT]
Describe this section in the [HOST] section and, in this section, describe the report policies to be used.

Key	Value
PatlitePolicy	Specifies the policy for patrol lamp reporting to be used. Specify "X" of [PATLITE_POLICY_X] described in the reporting definition section.
MailPolicy	Specifies the policy for email reporting to be used. Specify "X" of [MAIL_POLICY_X] described in the reporting definition section.
ActionPolicy	Specifies the policy for action reporting to be used. Specify "X" of [ACTION_POLICY_X] described in the reporting definition section.

(4) Reporting definition section [REPORT_DESCRIPTION]
Describe the reporting definition. For details, see Reporting funciton.

4. Performance monitoring

This chapter explains the description details of the import and export files for the performance monitoring function.

Service name	Performance monitoring
	⊟ 🔍 Topology View 　　⊟ 🖥️ Host1 　　　⊞ 🔍 Application Log Monitor 　　　⊞ 🔍 Eventlog Monitor 　　　⊞ 🔍 File Monitor 　　　⊞ ⚙️ Performance Monitor 　　　⊞ 🔍 Process Monitor 　　　⊞ 🗐 System 　　　⊞ ⚙️ Windows Service Monitor
Service ID	7
Import file name	Any name (up to 17 characters)
Export file name	Performance.txt

4.1 Overview

An import file example of the performance monitoring function is shown below.

```
FILE:Unified Management Framework
FUNCTION:PerformanceMonitor                    ⎫ Header part
VERSION:2.0                                    ⎭
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
[GROUP_0]                                      ⎫ Definition part
        INTERVAL=30
        [GROUP_1]
                OBJECTNAME=LogicalDisk
                SERVICEID=21
                [GROUP_2]
                        INSTANCENAME=C:
                        [COUNTER]
                                NATIVEID=4ad702c9
                                COUNTERNAME=% Disk Time
                                COLOR=000000ff
                                WIDTH=1                  Performance
                                SCALE=0                  monitoring definition
                                LOG=0
                                MONITORTYPE=1
                                COUNT=4
                                UPPERERROR=50.000000000000000000
                                ErrorReport=0
                                [REPORT]
                                        PatlitePolicy=1          Report
                                        MailPolicy=1             specification
                                        ActionPolicy=1           information
                                [END_REPORT]
                        [END_COUNTER]
                [END_GROUP_2]
        [END_GROUP_1]
        [GROUP_1]
                OBJECTNAME=Memory
                SERVICEID=21
                [COUNTER]
                        NATIVEID=4ad70320
                        COUNTERNAME=Available Bytes
                        COLOR=000000ff
                        WIDTH=1
```

```
                    SCALE=-6
                    LOG=0
                    MONITORTYPE=0
                    COUNT=2
                    LOWERWARNING=100.000000000000000
            [END_COUNTER]
            [COUNTER]
                    NATIVEID=4ad7031f
                    COUNTERNAME=Cache Bytes Peak
                    COLOR=0000ffff
                    WIDTH=1
                    SCALE=-5
                    LOG=1
                    MONITORTYPE=0
                    COUNT=2
            [END_COUNTER]
        [END_GROUP_1]
        [GROUP_1]
                OBJECTNAME=Extend Process
                SERVICEID=106
                [GROUP_2]
                    INSTANCENAME=Explorer.EXE
                    [COUNTER]
                            NATIVEID=4ad71a4a
                            COUNTERNAME=% Privileged Time
                            COLOR=000000ff
                            WIDTH=1
                            SCALE=0
                            LOG=0
                            MONITORTYPE=1
                            COUNT=2
                            LOWERERROR=1.000000000000000
                    [END_COUNTER]
                [END_GROUP_2]
        [END_GROUP_1]
[END_GROUP_0]

[PERFORMANCE_EXTEND]
        [GROUP_EXTEND]
                OBJECTNAME=Extend Process
                [INSTANCE_EXTEND]
                        INSTANCENAME=Explorer.EXE
                        PROCESSSPACE=64
                        COMMANDLINENAME=C:\\WINDOWS\\Explorer\.EXE
                [END_INSTANCE_EXTEND]
        [ENDGROUP_EXTEND]
[END_PERFORMANCE_EXTEND]

[REPORT_DESCRIPTION]
...
[END_REPORT_DESCRIPTION]
```

Extended performance monitoring definition (Extend Process)

Report definition information

4.2 Details

4.2.1 Header part

As the character strings in the header part are fixed describe the following information as is.

FILE:Unified Management Framework	: Product name (Fixed)
FUNCTION:PerformanceMonitor	: Function name (Fixed)
VERSION:2.0	: File version (Fixed)

4.2.2 Definition part

The definition part of the performance monitoring function is composed of the following nine sections.

- Performance monitoring section
- Object section
- Instance section
- Counter section
- Extended performance monitoring section
- Extended performance monitoring object section
- Extended performance monitoring instance section
- Report specification section
- Report definition section

(1) Performance monitoring section [GROUP_0]

The performance monitoring section is a section that includes the object section, instance section and counter section.
The section between the following start tag and end tag is the performance monitoring section.
Start tag: [GROUP_0]
End tag: [END_GROUP_0]
Root section. Describe the entire definition of the performance monitoring function.

Key	Value
INTERVAL	Monitoring interval (unit: second) - This is ignored when described in an import file. The monitoring interval is output during export.

(2) Object section [GROUP_1]

The object section is a section that includes the instance section and counter section (*1).
(*1) Note that the instance section is not included for an object in which an instance does not exist.

The section between the following start tag and end tag is the object section.
Start tag: [GROUP_1]
End tag: [END_GROUP_1]
Place this section within [GROUP_0], and describe the definition of the monitoring object.

Key	Value
OBJECTNAME	Object name (up to 128 characters) [Required]
SERVICEID	21 (Fixed) As an exception, specify 106 for OBJECTNAME=Extend Process (extended performance monitoring object). * Default: 21

(3) Instance section [GROUP_2]

The instance section is a section included in the object section of an object that has a monitoring instance. The instance section includes the counter section.
The section between the following start tag and end tag is the instance section.
Start tag: [GROUP_2]
End tag: [END_GROUP_2]
Place this section within [GROUP_1], and describe the definition of the monitoring instance. This section is not described when the object does not have an instance.

Key	Value
INSTANCENAME	Instance name (up to 128 characters) [Required]

(4) Counter section [COUNTER]

The counter section is a section included in the instance section for an object that has the monitoring instance, and is included in the object section for an object that does not have the monitoring instance.
The section between the following start tag and end tag is the counter section.
Start tag: [COUNTER]
End tag: [END_COUNTER]
Place this section within [GROUP_2] for an object that has an instance and within [GROUP_1] for an object that does not have an instance, and describe the definition of the monitoring counter.

Key	Value
NATIVEID	Counter ID (8-digit hexadecimal) - The counter ID is output during export to restore monitoring history information when definitions are deleted by mistake, etc. When editing the export file and using it as an import file, leave the exported ID as is, or delete this key. When creating a new import file definition, do not specify this key.
COUNTERNAME	Counter name (up to 128 characters) [Required]
COLOR	Color of graph line (RGB 8-digit hexadecimal) * Default: 00000000 (Black)
WIDTH	Width of graph line 1: Narrow * Default 2: Medium 3: Wide
SCALE	Graph scale -8: 0.00000001 times 0: 1 time * Default -7: 0.0000001 times 1: 10 times -6: 0.000001 times 2: 100 times -5: 0.00001 times 3: 1000 times -4: 0.0001 times 4: 10000 times -3: 0.001 times 5: 100000 times -2: 0.01 times 6: 1000000 times -1: 0.1 times 7: 10000000 times
LOG	ON/OFF for "Store the histrical data to file" 0: OFF Disabled * Default 1: ON Enabled
MONITORTYPE	Threshold judgment 0: Sequential * Default 1: Continuous 2: Average
COUNT	Threshold judgment count (2 to 16) * Default: 2 - Do not describe when MONITORTYPE =0.
UPPERERROR	Upper anomalous threshold (Double value of -99999999999999 to 99999999999999) * Default: No threshold monitoring - It is output to 18 decimal places during export. (e.g. 50.000000000000000000)
UPPERWARNING	Upper warning threshold (Double value of -99999999999999 to 99999999999999) * Default: No threshold monitoring - It is output to 18 decimal places during export. (e.g. 50.000000000000000000)
LOWERWARNING	Lower warning threshold (Double value of -99999999999999 to 99999999999999) * Default: No threshold monitoring - It is output to 18 decimal places during export. (e.g. 50.000000000000000000)
LOWERERROR	Lower anomalous threshold (Double value of -99999999999999 to 99999999999999) * Default: No threshold monitoring - It is output to 18 decimal places during export. (e.g. 50.000000000000000000)

Key	Value
ErrorReport	ON/OFF for "FATAL and WRNING only" 0: Do not report * Default 1: Report

* To specify a threshold for more than one from UPPERERROR, UPPERWARNING, LOWERWARNING and LOWERERROR, the magnitude relation of the values must be UPPERERROR > UPPERWARNING > LOWERWARNING > LOWERERROR.

(5) Report specification section [REPORT]

The section between the following start tag and end tag is the report section.
Start tag: [REPORT]
End tag: [END_REPORT]
Describe this section in the [COUNTER] section and, in this section, describe the report policies to be used.

Key	Value
PatlitePolicy	Specifies the policy for patrol lamp reporting to be used. Specify "X" of [PATLITE_POLICY_X] described in the reporting definition section.
MailPolicy	Specifies the policy for email reporting to be used. Specify "X" of [MAIL_POLICY_X] described in the reporting definition section.
ActionPolicy	Specifies the policy for action reporting to be used. Specify "X" of [ACTION_POLICY_X] described in the reporting definition section.

(6) Extended performance monitoring section [PERFORMANCE_EXTEND]

The extended performance monitoring section, extended performance monitoring object section and extended performance monitoring instance section are described only when extended performance monitoring is used (only when the Extend Process object is specified and used in performance monitoring).
The extended performance monitoring section is a section that includes the extended performance monitoring object section and extended performance monitoring instance section.
The section between the following start tag and end tag is the extended performance monitoring section.
Start tag: [PERFORMANCE_EXTEND]
End tag: [END_PERFORMANCE_EXTEND]
Root section. Describe the monitoring settings of the extended performance monitoring.

(7) Extended performance monitoring object section [GROUP_EXTEND]

The extended performance monitoring object section is a section that includes the extended performance monitoring instance section.
The section between the following start tag and end tag is the extended performance monitoring object section.
Start tag: [GROUP_EXTEND]
End tag: [ENDGROUP_EXTEND]
Place this section within [PERFORMANCE_EXTEND], and describe the definition of the monitoring object (Extend Process only) for the extended performance monitoring.
Describe this definition only when extended performance monitoring (Extend Process) is used.

Key	Value
OBJECTNAME	Extend Process (Fixed) [Required]

[Note]
Do not describe this section when monitoring remote hosts.

(8) Extended performance monitoring instance section [INSTANCE_EXTEND]

The extended performance monitoring instance section is a section that includes proprietary items only.
The section between the following start tag and end tag is the extended performance monitoring instance section.
Start tag: [INSTANCE_EXTEND]
End tag: [END_INSTANCE_EXTEND]
Place this section within [GROUP_EXTEND], and describe the definition of the instance (process) monitored by the extended performance monitoring (Extend Process).
Describe this definition only when extended performance monitoring (Extend Process) is used.

Key	Value
INSTANCENAME	Display name (up to 128 characters) [Required]

PROCESSSPACE	Process exploration (1 to 65535) * Default: 64
COMMANDLINENAME	Command line (up to 4,096 characters) [Required]

* The monitoring definitions (object, instance, and counter) of Extend Process must be described in the standard (in the [GROUP_0] section) performance monitoring definitions. At this point, specify the same value for the value of INSTANCENAME. For details, see "4.1 Overview".
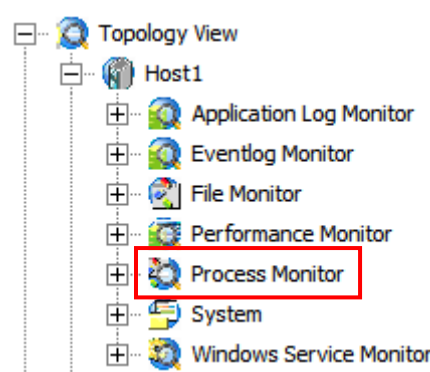
(9) Reporting definition section [REPORT_DESCRIPTION]
Describe the reporting definition. For details, see Reporting funciton.

5. Process monitoring

This chapter explains the description details of the import and export files for the process service monitoring function.

Service name	Process monitoring
	Topology View 　Host1 　　Application Log Monitor 　　Eventlog Monitor 　　File Monitor 　　Performance Monitor 　　Process Monitor 　　System 　　Windows Service Monitor
Service ID	8
Import file name	Any name (up to 17 characters)
Export file name	Process.txt

5.1 Overview

An import file example of the process monitoring function is shown below.

```
FILE:Unified Management Framework
FUNCTION:ProcessMonitor                          ⎫
VERSION:2.0                                       ⎬ Header part
------------------------------------------------ ⎭
                                                  ⎫
[GROUP_0]                                         ⎬ Definition part
        INTERVAL=30                               ⎭
        [GROUP_1]
                DISPLAYNAME=Group1
                ICONNAME=C:\Program Files\NEC\UMF\xxx\icon\etc\AAA.ico
                [GROUP_1]
                        DISPLAYNAME=Group1-1
                        ICONNAME=
                        [GROUP_2]
                                DISPLAYNAME=Group1-1-1
                                ICONNAME= C:\Program Files\NEC\UMF\xxx\icon\etc\BBB.ico
                                [PROCESS]
                                        PROCESSNAME=Explorer.EXE
                                        TYPE=0
                                        PROCESSPATH=C:\WINDOWS\Explorer.EXE
                                        COMMANDLINE=C:\\WINDOWS\\Explorer\.EXE
                                        PROCESSLOWTHRESHOLD=1
                                        PROCESSHIGHTHRESHOLD=5
                                        STARTCOMMAND=C:\AAA\BBB\DummyCmd.exe
                                        STARTDIRECTORY=C:\AAA\BBB
                                        STARTOPTION=-start
                                        STOPCOMMAND=C:\AAA\BBB\DummyCmd.exe
                                        STOPDIRECTORY=C:\AAA\BBB
                                        STOPOPTION=-stop
                                        MONITORPROCESSID=1
                                        ErrorReport=1
                                        [REPORT]                    ⎫ Report
                                                PatlitePolicy=1     ⎬ specification
                                        [END_REPORT]                ⎭ information
                                [END_PROCESS]
                                [PROCESS]
                                        PROCESSNAME=snmp.exe
                                        TYPE=1
                                        PROCESSPATH=C:\WINDOWS\System32\snmp.exe
                                        COMMANDLINE=C:\\WINDOWS\\System32\\snmp\.exe
```

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```
                                        PROCESSLOWTHRESHOLD=1
                                        PROCESSHIGHTHRESHOLD=1
                               [END_PROCESS]
                      [END_GROUP_2]
                 [END_GROUP_1]
            [END_GROUP_1]
[END_GROUP_0]

[REPORT_DESCRIPTION]
...
[END_REPORT_DESCRIPTION]
```

Report definition information

5.2 Details

5.2.1 Header part

As the character strings in the header part are fixed describe the following information as is.

FILE:Unified Management Framework	: Product name (Fixed)
FUNCTION:ProcessMonitor	: Function name (Fixed)
VERSION:2.0	: File version (Fixed)

5.2.2 Definition part

The definition part of the process monitoring function is composed of the following six sections.

- Process monitoring section
- Group node section
- Monitoring node section
- Monitoring setting section
- Report specification section
- Report definition section

(1) Process monitoring section [GROUP_0]

The process monitoring section is a section that includes the group node section, monitoring node section and monitoring setting section.
The section between the following start tag and end tag is the process monitoring section.
Start tag: [GROUP_0]
End tag: [END_GROUP_0]
Root section. Describe the entire definition of the process monitoring function.

Key	Value
INTERVAL	Monitoring interval (unit: second) - This is ignored when described in an import file. The monitoring interval is output during export.

(2) Group node section [GROUP_1]
The group node section is a section included in the process monitoring section or in the group node section that is the parent group on the console.
The group node section includes a group node section of a child group on the console, or the monitoring node section and monitoring setting section.
The section between the following start tag and end tag is the group node section.
Start tag: [GROUP_1]
End tag: [END_GROUP_1]
Place this section within [GROUP_0] or [GROUP_1] that is the parent group, and describe the definition of the process group.
The node described in [GROUP_1] is a node that has a child node or a child group in the tree view, and does not have the settings for the monitoring process. [GROUP_1] or [GROUP_2] must be described in [GROUP_1]. Note that [GROUP_1] must be described in a nested structure similarly to the hierarchy structure displayed in the tree view.

Description example of hierarchy structure


```
[GROUP_0]
        [GROUP_1]
                DISPLAYNAME=AAA
                [GROUP_1]
                        DISPLAYNAME=BBB
                        [GROUP_1]
                                DISPLAYNAME=CCC
                        [END_GROUP_1]
                [END_GROUP_1]
                [GROUP_1]
                        DISPLAYNAME=DDD
                [END_GROUP_1]
        [END_GROUP_1]
[END_GROUP_0]
```
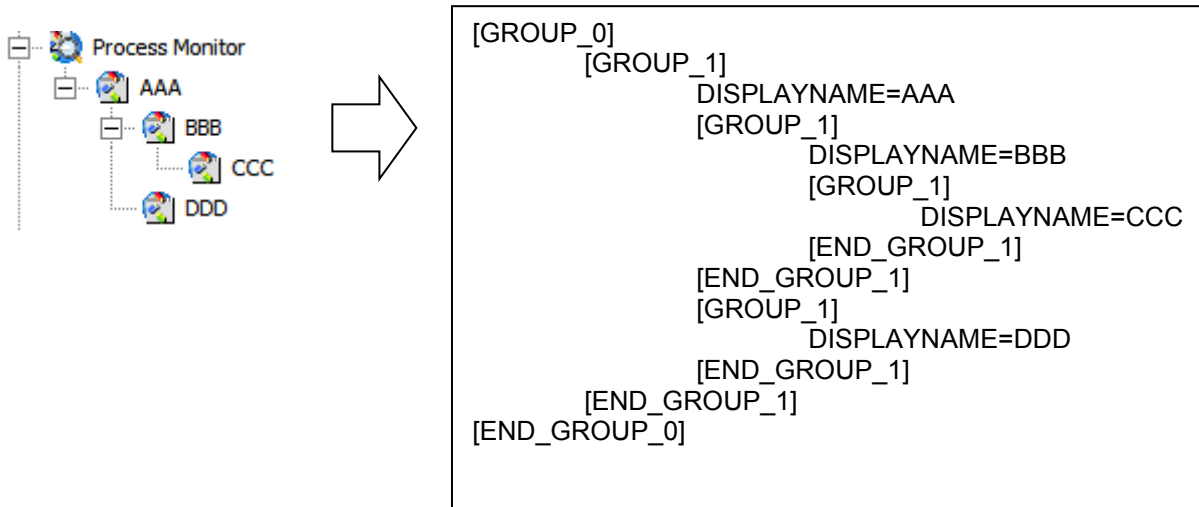
Key	Value
DISPLAYNAME	Process group name (up to 64 characters) [Required]
ICONNAME	Absolute path name of the icon file for the process group node (up to 256 characters) * Default: Use the default icon - The specified icon file must be registered in advance to the machine where the console is installed.

(3) Monitoring node section [GROUP_2]
The monitoring node section is a section included in the group node section.
The monitoring node section includes the monitoring setting section.
The section between the following start tag and end tag is the monitoring node section.
Start tag: [GROUP_2]
End tag: [END_GROUP_2]
Place this section within [GROUP_1] that is the parent group, and describe the definition of the monitoring process.
The node described in [GROUP_2] is the terminal node to specify the monitoring process settings, and does not have a child node (child group) in the tree view. [PROCESS] must be described in [GROUP_2].

Key	Value
DISPLAYNAME	Monitoring process node name (up to 64 characters) [Required]
ICONNAME	Absolute path name of the icon file for the node (up to 256 characters) * Default: Use the default icon - The specified icon file must be registered in advance to the machine where the console is installed.

(4) Monitoring setting section [PROCESS]

The monitoring setting section is a section included in the monitoring node section.
The section between the following start tag and end tag is the monitoring setting section.
Start tag: [PROCESS]
End tag: [END_PROCESS]
Place this section within [GROUP_2], and describe the settings for the monitoring process.

Key	Value
PROCESSNAME	Display name (up to 64 characters) [Required]
TYPE	Monitoring type 0: Monitor using process path * Default 1: Monitor using command line
PROCESSPATH	Specify the monitoring process using the absolute path (up to 256 characters) [Required when TYPE=0]
COMMANDLINE	Command line (up to 256 character) [Required when TYPE=1] - Describe this key using a regular expression. (When using meta characters such as a period (.) and yen mark (\) (characters with special meanings for the regular expression) as normal characters, add "\" immediately before the meta character to escape.) For the regular expression, see Help.
PROCESSLOWTHRESHOLD	Lower limit of process count (1 to 9999) * Default: 1
PROCESSHIGHTHRESHOLD	Upper limit of process count (1 to 9999) * Default: 9999
STARTCOMMAND	Specify the start command application using the absolute path. (up to 256 characters)
STARTDIRECTORY	Specify the work directory of the start command using the absolute path. (up to 256 characters)
STARTOPTION	Option for the start command (up to 256 characters)
STOPCOMMAND	Specify the stop command application using the absolute path. (up to 256 characters)
STOPDIRECTORY	Specify the work directory of the stop command using the absolute path. (up to 256 characters)
STOPOPTION	Option for the stop command (up to 256 characters)
MONITORPROCESSID	ON/OFF for "Check the difference of Process ID" 0: OFF Disabled * Default 1: ON Enabled
Schedule	ON/OFF for schedule setting (update is not supported when using IMPORT) 0: OFF Disabled * Default 1: ON Enabled
ScheduleID	Linkage ID for the schedule management function (update is not supported when using IMPORT)
ErrorReport	ON/OFF for "Report only when the process status is ERROR" 0: Do not report * Default 1: Report

* Specify PROCESSLOWTHRESHOLD and PROCESSHIGHTHRESHOLD so that the magnitude relation of their values is PROCESSLOWTHRESHOLD <= PROCESSHIGHTHRESHOLD.

(5) Report specification section [REPORT]

The section between the following start tag and end tag is the report section.
Start tag: [REPORT]
End tag: [END_REPORT]
Describe this section in the [PROCESS] section and, in this section, describe the report policies to be used.

Key	Value
PatlitePolicy	Specifies the policy for patrol lamp reporting to be used. Specify "X" of [PATLITE_POLICY_X] described in the reporting definition section.
MailPolicy	Specifies the policy for email reporting to be used. Specify "X" of [MAIL_POLICY_X] described in the reporting definition section.

ActionPolicy	Specifies the policy for action reporting to be used. Specify "X" of [ACTION_POLICY_X] described in the reporting definition section.

(6) Reporting definition section [REPORT_DESCRIPTION]
Describe the reporting definition. For details, see Reporting funciton.

6. Windows service monitoring

This chapter explains the description details of the import and export files for the Windows service monitoring function.
Note that the settings described in this chapter can be performed only for Windows agents.

Service name	Windows service monitoring
Service ID	9
Import file name	Any name (up to 17 characters)
Export file name	NTService.txt

6.1 Overview

An import file example of the Windows service monitoring function is shown below.

```
FILE:Unified Management Framework
FUNCTION:NTServiceMonitor                        Header part
VERSION:2.0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                 Definition part
[GROUP_0]
        INTERVAL=30
        [GROUP_1]
                DISPLAYNAME=Group1
                ICONNAME= C:\Program Files\NEC\UMF\xxx\icon\etc\AAA.ico
                [GROUP_1]
                        DISPLAYNAME=Group1-1
                        ICONNAME= C:\Program Files\NEC\UMF\xxx\icon\etc\BBB.ico
                        [GROUP_2]
                                DISPLAYNAME=Group1-1-1
                                ICONNAME= C:\Program Files\NEC\UMF\xxx\icon\etc\CCC.ico
                                [SERVICE]
                                        SERVICENAME=Alerter
                                        DISPLAYNAME=Alerter
                                        ErrorReport=1                  Report
                                        [REPORT]                      specification
                                                PatlitePolicy=1        information
                                        [END_REPORT]
                                [END_SERVICE]
                                [SERVICE]
                                        SERVICENAME=Eventlog
                                        DISPLAYNAME=Event Log
                                [END_SERVICE]
                        [END_GROUP_2]
                [END_GROUP_1]
        [END_GROUP_1]
        [GROUP_2]
                DISPLAYNAME=Group2
                [SERVICE]
                        SERVICENAME=TlntSvr
                        DISPLAYNAME=Telnet
                [END_SERVICE]
        [END_GROUP_2]
```

```
[END_GROUP_0]

[REPORT_DESCRIPTION]
...
[END_REPORT_DESCRIPTION]
```

} Report
definition
information

6.2 Details

6.2.1 Header part
As the character strings in the header part are fixed describe the following information as is.

```
FILE:Unified Management Framework        : Product name (Fixed)
FUNCTION:NTServiceMonitor                 : Function name (Fixed)
VERSION:2.0                               : File version (Fixed)
```

6.2.2 Definition part
The definition part of the Windows service monitoring function is composed of the following six sections.
- Windows service monitoring section
- Group node section
- Monitoring node section
- Monitoring setting section
- Report specification section
- Report definition section

(1) Windows service monitoring section [GROUP_0]
The Windows service monitoring section is a section that includes the group node section, monitoring node section and monitoring setting section.
The section between the following start tag and end tag is the Windows service monitoring section.
Start tag: [GROUP_0]
End tag: [END_GROUP_0]
Root section. Describe the entire definition of the Windows service monitoring function.

Key	Value
INTERVAL	Monitoring interval (unit: second) - This is ignored when described in an import file. The monitoring interval is output during export.

(2) Group node section [GROUP_1]
The group node section is a section included in the Windows service monitoring section or in the group node section that is the parent group on the console.
The group node section includes a group node section of a child group on the console, or the monitoring node section and monitoring setting section.
The section between the following start tag and end tag is the group node section.
Start tag: [GROUP_1]
End tag: [END_GROUP_1]
Place this section within [GROUP_0] or [GROUP_1] that is the parent group, and describe the definition of the Windows service group.
The node described in [GROUP_1] is a node that has a child node or a child group in the tree view, and does not have the settings for the monitoring service. [GROUP_1] or [GROUP_2] must be described in [GROUP_1]. Note that [GROUP_1] must be described in a nested structure similarly to the hierarchy structure displayed in the tree view. The method to describe items in a hierarchy structure is the same as "Group node section [GROUP_1]" in "Process monitoring".

Key	Value
DISPLAYNAME	Windows service group name (up to 64 characters) [Required]
ICONNAME	Absolute path name of the icon file for the Windows service group node (up to 256 characters) * Default: Use the default icon - The specified icon file must be registered in advance to the machine where the console is installed.

(3) Monitoring node section [GROUP_2]

The monitoring node section is a section included in the group node section.

The monitoring node section includes the monitoring setting section.

The section between the following start tag and end tag is the monitoring node section.

Start tag: [GROUP_2]

End tag: [END_GROUP_2]

Place this section within [GROUP_1] that is the parent group, and describe the definition of the monitoring service.

The node described in [GROUP_2] is the terminal node to specify the monitoring service settings, and does not have a child node (child group) in the tree view. [SERVICE] must be described in [GROUP_2].

Key	Value
DISPLAYNAME	Monitoring service node name (up to 64 characters) [Required]
ICONNAME	Absolute path name of the icon file for the node (up to 256 characters) * Default: Use the default icon - The specified icon file must be registered in advance to the machine where the console is installed.

(4) Monitoring setting section [SERVICE]

The monitoring setting section is a section included in the monitoring node section.

The section between the following start tag and end tag is the monitoring setting section.

Start tag: [SERVICE]

End tag: [END_SERVICE]

Place this section within [GROUP_2], and describe the settings for the monitoring service.

Key	Value
SERVICENAME	Service name (up to 256 characters) [Required] - Open the properties dialog box of the monitored service, and transcribe the contents of the displayed "Service name".
DISPLAYNAME	Display name (up to 128 characters) [Required] - Open the properties dialog box of the monitored service, and transcribe the contents of the displayed "Display name".
Schedule	ON/OFF for schedule setting (update is not supported when using IMPORT) 0: OFF Disabled * Default 1: ON Enabled
ScheduleID	Linkage ID for the schedule management function (update is not supported when using IMPORT)
ErrorReport	ON/OFF for "Report only when the service stopped". 0: Do not report * Default 1: Report
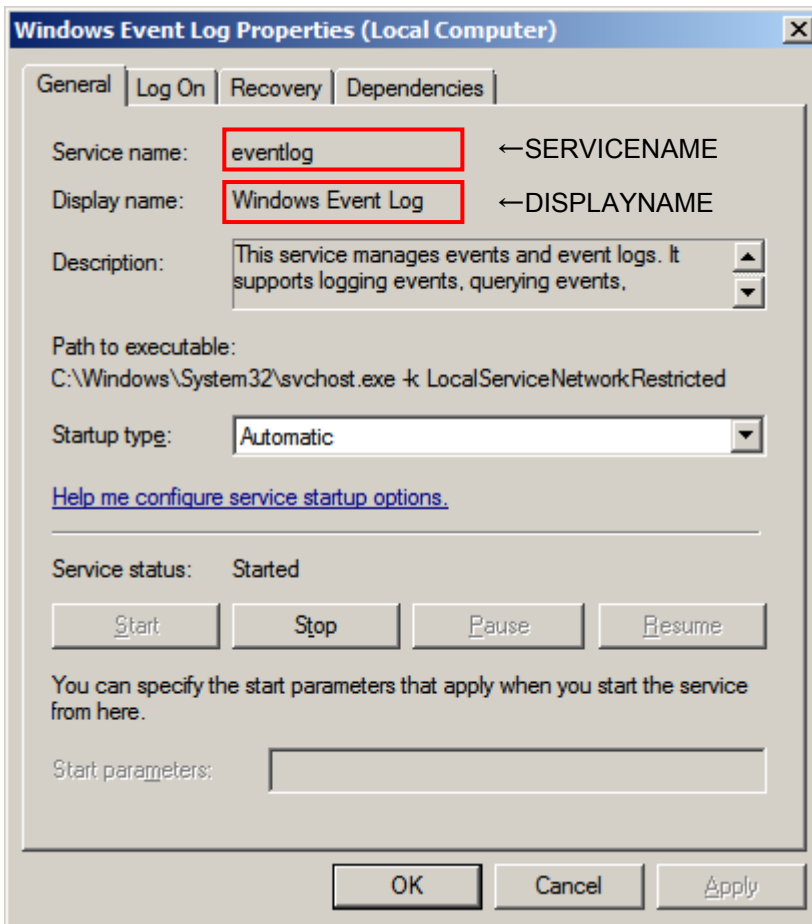
(5) Report specification section [REPORT]
The section between the following start tag and end tag is the report section.
Start tag: [REPORT]
End tag: [END_REPORT]
Describe this section in the [SERVICE] section and, in this section, describe the report policies to be used.

Key	Value
PatlitePolicy	Specifies the policy for patrol lamp reporting to be used. Specify "X" of [PATLITE_POLICY_X] described in the reporting definition section.
MailPolicy	Specifies the policy for email reporting to be used. Specify "X" of [MAIL_POLICY_X] described in the reporting definition section.
ActionPolicy	Specifies the policy for action reporting to be used. Specify "X" of [ACTION_POLICY_X] described in the reporting definition section.

(6) Reporting definition section [REPORT_DESCRIPTION]
Describe the reporting definition. For details, see Reporting funciton.

7. Application log monitoring

This chapter explains the description details of the import and export files for the application log monitoring function.

Service name	Application log monitoring
Service ID	12
Import file name	Any name (up to 17 characters)
Export file name	ApLog.txt

7.1 Overview

An import file example of the application log monitoring function is shown below.

```
FILE:Unified Management Framework
FUNCTION:ApLogMonitor                                    Header part
VERSION:2.0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
[GROUP_0]                                                Definition part
        INTERVAL=10
        [APPLICATION]
                DISPLAYNAME=ApLog1
                APLOGNAME=C:\Logfile\Log1.txt
                LOSTPOS=1
                SHAREDISK=0
                CODEPAGE=20127
                [MESSAGE]
                        MESSAGENAME=AAAAA
                        CATEGORY=Application
                        SEVERITY=264
                        NODE=Host1
                        APPLICATION=ApLog1
                        OBJECT=XXX
                        MESSAGEID=9999
                        TYPE=0
                        MESSAGEIGNORE=0
                        MESSAGEIGNOREINTERVAL=10
                        MESSAGEIGNORERESET=0
                        MESSAGEIGNOREPASSDELETE=0
                [END_MESSAGE]
        [END_APPLICATION]
        [GROUP_1]
                DISPLAYNAME=Group1
                ICONNAME=
                [GROUP_1]
                        DISPLAYNAME=Group1-1
                        ICONNAME=C:\Program Files\NEC\UMF\xxx\icon\etc\AAA.ico
                        [GROUP_1]
                                DISPLAYNAME=Group1-1-1
                                ICONNAME=C:\Program Files\NEC\UMF\xxx\icon\etc\BBB.ico
                                [APPLICATION]
                                        DISPLAYNAME=ApLog2
```

```
                                           ICONNAME=C:\Program Files\xxx\icon\etc\DDD.ico
                                           APLOGNAME=C:\Logfile\Log2.txt
                                           BACKUPLOG=1
                                           BACKUPLOGNAME1=C:\Logfile\backup\OldLog1.txt
                                           BACKUPLOGNAME2=C:\Logfile\backup\OldLog2.txt
                                           BACKUPLOGNAME3=C:\Logfile\backup\OldLog3.txt
                                           BACKUPLOGNAME4=C:\Logfile\backup\OldLog4.txt
                                           BACKUPLOGNAME5=C:\Logfile\backup\OldLog5.txt
                                           BACKUPLOGNAME6=C:\Logfile\backup\OldLog6.txt
                                           BACKUPLOGNAME7=C:\Logfile\backup\OldLog7.txt
                                           BACKUPLOGNAME8=C:\Logfile\backup\OldLog8.txt
                                           LOSTPOS=1
                                           SHAREDISK=1
                                           CODEPAGE=932
                                           PLURALLINE=1
                                           SENDLINE=4
                                           SENDWAIT=1000
                                           HEADLINE=AAA
                                           [MESSAGE]
                                                   MESSAGENAME=MessageDel
                                                   TYPE=1
                                                   MESSAGETEXT!=XXX
                                                   MESSAGEIGNORE=0
                                                   MESSAGEIGNOREINTERVAL=10
                                                   MESSAGEIGNORERERESET=0
                                                   MESSAGEIGNOREPASSDELETE=0
                                           [END_MESSAGE]
                                           [MESSAGE]
                                                   MESSAGENAME=Message1
                                                   CATEGORY=Application
                                                   SEVERITY=257
                                                   NODE=Host1
                                                   APPLICATION=ApLog2
                                                   OBJECT=Object
                                                   MESSAGEID=12345
                                                   MESSAGETEXT=AAA
                                                   SELPOS=(1, "BBB", =)
                                                   SELKEY!=("KEY", "1", <>)
                                                   SELKEY=("KEY", "2", =)
                                                   TYPE=0
                                                   MESSAGEIGNORE=0
                                                   MESSAGEIGNOREINTERVAL=10
                                                   MESSAGEIGNORERERESET=0
                                                   MESSAGEIGNOREPASSDELETE=0
                                           [END_MESSAGE]
                                   [END_APPLICATION]
                           [END_GROUP_1]
                   [END_GROUP_1]
           [END_GROUP_1]
[END_GROUP_0]
```

7.2 Details

7.2.1 Header part

As the character strings in the header part are fixed, describe the following information as is.

FILE:Unified Management Framework	: Product name (Fixed)
FUNCTION:ApLogMonitor	: Function name (Fixed)
VERSION:2.0	: File version (Fixed)

7.2.2 Definition part

The definition part of the application log monitoring function is composed of the following four sections.

- Application log monitoring section
- Group node section
- Monitoring setting section
- Filter definition section

(1) Application log monitoring section [GROUP_0]

The application log monitoring section is a section that includes the group node section, monitoring setting section and filter definition section.

The section between the following start tag and end tag is the application log monitoring section.

Start tag: [GROUP_0]

End tag: [END_GROUP_0]

Root section. Describe the entire definition of the application log monitoring function.

Key	Value
INTERVAL	Monitoring interval (unit: second) - This is ignored when described in an import file. The monitoring interval is output during export.

(2) Group node section [GROUP_1]

The group node section is a section included in the application log monitoring setting section or in the group node section that is the parent group on the console.

The group node section includes a group node section of a child group on the console, or the monitoring setting section and filter definition section.

The section between the following start tag and end tag is the group node section.

Start tag: [GROUP_1]

End tag: [END_GROUP_1]

Place this section within [GROUP_0] or [GROUP_1] that is the parent group, and describe the definition of the application log group.

[GROUP_1] must be described in a nested structure similarly to the hierarchy structure displayed in the tree view. Note that the method to describe items in a hierarchy structure is the same as "Group node section [GROUP_1]" in "Process monitoring".

Key	Value
DISPLAYNAME	Application log group name (up to 64 characters) [Required]
ICONNAME	Absolute path name of the icon file for the application log group node (up to 256 characters) * Default: Use the default icon - The specified icon file must be registered in advance to the machine where the console is installed.

(3) Monitoring setting section [APPLICATION]

The monitoring setting section is a section included in the application log monitoring section or the group node section.

The monitoring setting section includes the filter definition section.

The section between the following start tag and end tag is the monitoring setting section.

Start tag: [APPLICATION]

End tag: [END_APPLICATION]

Place this section within [GROUP_0] or [GROUP_1] that is the parent group. Describe the definition of the monitored application log.

Key	Value
DISPLAYNAME	Application log name (up to 32 characters) [Required]
ICONNAME	Absolute path name of the icon file for the application log node (up to 256 characters) * Default: Use the default icon - The specified icon file must be registered in advance to the machine where the console is installed.
APLOGNAME	Absolute path name of the application log file (up to 256 characters) [Required]
BACKUPLOG	ON/OFF for "Monitor" for backup files 0: OFF Disabled * Default 1: ON Enabled
BACKUPLOGNAME1 : BACKUPLOGNAME8	Absolute path name of the backup log file (up to 256 characters) [Required at least 1 name when BACKUPLOG=1] - Do not describe when BACKUPLOG=0. - Describe the names in the BACKUPLOGNAMEn format where "n" is the number in ascending order such as 1, 2, and so on, and up to 8 names can be specified. - "n" in "BACKUPLOGNAMEn" corresponds to [No.] displayed for the backup file items on the console, and the specified files are monitored in ascending order starting from the file with the smallest number.
LOSTPOS	ON/OFF for "Messages of all logs transmit, when continuance of monitoring is impossible" 0: OFF Disabled * Default 1: ON Enabled
SHAREDISK	ON/OFF for "Monitoring file is on the shared disk" 0: OFF Disabled * Default 1: ON Enabled
SAVELOGNAME	ON/OFF for "When setting replacement text, a log file is compared." 0: OFF Disabled * Default 1: ON Enabled
CODEPAGE	Character encoding 20932: Japanese (JIS 0208-1990 and 0212-1990) 50220: Japanese (JIS) 932: Japanese (Shift-JIS) 1200: Unicode 1201: Unicode (Big-Endian) 65001: Unicode (UTF-8) 20127: US-ASCII * Default
PLURALLINE	ON/OFF for "Monitoring two or more lines" for the specified number of lines 0: OFF Disabled * Default 1: ON Enabled
SENDLINE	Maximum number of lines to specify (2 to 10) * Default: 2 - Invalid value when PLURALLINE=0.
SENDWAIT	Maximum wait time for the specified number of lines (milliseconds) (500 to 5000) * Default: 500 - Invalid value when PLURALLINE=0.
HEADLINE	Fist line text for the specified number of lines (up to 1,024 characters) [Required when PLURALLINE=1] - Invalid value when PLURALLINE=0.

Key	Value
COMMANDCONTROL	ON/OFF for the pre-monitoring command execution function 0 : OFF Disabled * Default 1 : ON Enabled
COMMANDNAME	Specify the command path of the pre-monitoring command execution function using the absolute path. (up to 256 characters) - Invalid value when COMMANDCONTROL=0.
WORKDIRECTORY	For commands to use the work directory of the pre-monitoring command execution function, be sure to specify the absolute path. (up to 256 characters) - Invalid value when COMMANDCONTROL=0.
COMMANDOPTION	Command option for the pre-monitoring command execution function (up to 2,046 characters) - Invalid value when COMMANDCONTROL=0.
COMMANDRETCOUNT	Return value when the command of the pre-monitoring command execution function succeeds (0 to 32767) * Default: 0 - Invalid value when COMMANDCONTROL=0.
FAILEDMONITER	ON/OFF for the failure monitoring of the pre-monitoring command execution function 0: OFF Disabled * Default 1: ON Enabled - Invalid value when COMMANDCONTROL=0.
TIMEOUTCOUNT	Timeout value of the pre-monitoring command execution function (unit: second) (0 to 3600) * Default: 0 (0 means "no timeout judgment".) - Invalid value when COMMANDCONTROL=0.
COMMANDSKIP	ON/OFF for the timeout monitoring of the pre-monitoring command execution function 0: OFF Disabled * Default 1: ON Enabled - Invalid value when COMMANDCONTROL=0.

(4) Filter definition section [MESSAGE]

The filter definition section is a section included in the monitoring setting section.
Multiple filter definition sections (as many as the number of filter definitions) can be described in one monitoring setting section. When multiple filter definitions exist, describe first the filter to be checked first (the filter at the top in the "Filter Setting" dialog box), then the second one, and so on.
The section between the following start tag and end tag is the filter definition section.
Start tag: [MESSAGE]
End tag: [END_MESSAGE]
Place this section within [APPLICATION], and describe the filter definition of the application log defined in [APPLICATION].

Key	Value
MESSAGENAME	Message overview of the "Filter Setting" tab (up to 256 characters) [Required]
CATEGORY	Category of the "Display Setting" tab (up to 32 characters) [Required]
SEVERITY	Specify the severity of the "Display Setting" tab using the severity ID. (See List of severity IDs) [Required]
NODE	Node of the "Display Setting" tab (up to 256 characters) [Required]
APPLICATION	Application of the "Display Setting" tab (up to 32 characters) [Required]
OBJECT	Object of the "Display Setting" tab (up to 32 characters) [Required]
MESSAGEID	Message ID of the "Display Setting" tab (up to 128 characters) [Required]
TYPE	Type of the "Filter Setting" tab 0: Store * Default 1: Delete
MESSAGETEXT MESSAGETEXT!	Message text of the "Filter Setting" tab (up to 1,024 characters) - Describe MESSAGETEXT when "Not" is OFF, and MESSAGETEXT! when "Not" is ON. Only one of MESSAGETEXT and MESSAGETEXT! can be described.

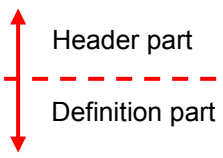| Key	Value

SELPOS
SELPOS!
	Position specification of the "Filter Setting" tab
	- Describe SELPOS when "Not" is OFF, and SELPOS! when "Not" is ON. Up to 8 items can be specified in total for both SELPOS and SELPOS!.
	- The value is specified in the format of (<Position>, "<Comparison value>", <Condition>).
	    <Position>: 1 to 1,024
	    <Comparison value>: Up to 64 characters
	    <Condition>: =, <>, >=, >, <= or <

SELKEY
SELKEY!
	Key specification of the "Filter Setting" tab
	- Describe SELKEY when "Not" is OFF, and SELKEY! when "Not" is ON. Up to 8 items can be specified in total for both SELKEY and SELKEY!.
	- The value is specified in the format of (<Key value>, "<Comparison value>", <Condition>).
	    <Key value>: Up to 64 characters
	    <Comparison value>: Up to 64 characters
	    <Condition>: =, <>, >=, >, <= or <

MESSAGEIGNORE	ON/OFF for the message suppression function 0: OFF Disabled * Default 1: ON Enabled
MESSAGEIGNOREIN TERVAL	Monitoring interval of the message suppression function (unit: second) (1 to 3,600) * Default: 10
MESSAGEIGNORERE SET	ON/OFF for the message suppression function reset 0 : OFF Disabled * Default 1 : ON Enabled
MESSAGEIGNOREPA SSDELETE	Suppression operation of the message suppression function [Required] 0 : When multiple logs that match the filter are detected during the monitoring interval of the message suppression function, a message is output for the first detected log and the subsequent logs are deleted without being reported. (Logs that matched this filter are not checked or reported even when a filter with priority lower than this filter is specified.) 1 : When multiple logs that match the filter are detected during the monitoring interval of the message suppression function, a message is output for the first detected log and the subsequent logs are not checked for the filter. (When a filter with priority lower than this filter exists, the subsequent logs are checked for the lower priority filter sequentially and a message is output when a log matches the lower priority filter.)

8. Syslog monitoring

This chapter explains the description details of the import and export files for the syslog monitoring function.
Note that the settings described in this chapter can be performed only for UNIX agents.

Service name	Syslog monitoring
Service ID	44
Import file name	Any name (up to 17 characters)
Export file name	SysLog.txt

8.1 Overview

An import file example of the syslog monitoring function is shown below.

```
FILE:Unified Management Framework
FUNCTION:SysLogMonitor                          Header part
VERSION:2.0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
[SYSLOG]                                         Definition part
        SYSLOG=/var/adm/syslog/mail.log
        SAMEMESSAGE=0
        LOSTPOS=1
        CHARCODE=100
        [MESSAGE]
                MESSAGENAME=Default Filter
                TYPE=0
                CATEGORY=mail.log
                SEVERITY=264
                NODE=Host2
                APPLICATION=0000
                OBJECT=0000
                MESSAGEID=0000
                MESSAGEIGNORE=0
                MESSAGEIGNOREINTERVAL=10
                MESSAGEIGNORERESET=0
                MESSAGEIGNOREPASSDELETE=0
        [END_MESSAGE]
[END_SYSLOG]
[SYSLOG]
        SYSLOG=/var/adm/syslog/syslog.log
        BACKUPLOG=1
        BACKUPLOGNAME1=/var/adm/syslog/syslog.log.1
        SAMEMESSAGE=1
        SAMEMESSAGECOUNT=1024
        SAMEMESSAGEINTERVAL=10
        SAMEMESSAGERESET=1
        SAMEMESSAGENUMERIC=1
        LOSTPOS=1
        CHARCODE=3
        [MESSAGE]
                MESSAGENAME=Message1
                TYPE=0
                CATEGORY=syslog.log
                SEVERITY=261
```

```
                    NODE=Host2
                    APPLICATION=XXX
                    OBJECT=YYY
                    MESSAGEID=1111
                    MESSAGETEXT=AAAAA
                    SELPOS=(3, "1", >=)
                    SELKEY=("BBB", "2", =)
                    MESSAGEIGNORE=0
                    MESSAGEIGNOREINTERVAL=10
                    MESSAGEIGNORERESET=0
                    MESSAGEIGNOREPASSDELETE=0
            [END_MESSAGE]
    [END_SYSLOG]
```

8.2 Details

8.2.1 Header part

As the character strings in the header part are fixed, describe the following information as is.

FILE:Unified Management Framework	: Product name (Fixed)
FUNCTION:SysLogMonitor	: Function name (Fixed)
VERSION:2.0	: File version (Fixed)

8.2.2 Definition part

The definition part of the syslog monitoring function is composed of the following two sections.
- Monitoring setting section
- Filter definition section

(1) Monitoring setting section [SYSLOG]

The monitoring setting section is a section that includes the filter definition section.
The section between the following start tag and end tag is the monitoring setting section.
Start tag: [SYSLOG]
End tag: [END_SYSLOG]
Root section. Describe the syslog monitoring definitions.

Key	Value
SYSLOG	Syslog name (up to 256 characters) [Required] - Use the monitoring window to confirm the syslog name.
BACKUPLOG	ON/OFF for "Specify File Name" 0: OFF Disabled * Default 1: ON Enabled
BACKUPLOGNAME1	Absolute path name for backup log file (up to 256 characters) [Required when BACKUPLOG=1]
SAMEMESSAGE	ON/OFF for "Use Ignore Function" of the identical message suppression function 0: OFF Disabled * Default 1: ON Enabled
SAMEMESSAGECOUNT	Message count of the identical message suppression function (256 to 4,096) * Default: 1024 - Invalid value when SAMEMESSAGE=0.
SAMEMESSAGEINTERVAL	Monitoring interval of the identical message suppression function (unit: second) (1 to 3,600) * Default: 10 - Invalid value when SAMEMESSAGE=0.
SAMEMESSAGERESET	ON/OFF for "Reset Option" of the identical message suppression function 0: OFF Disabled * Default 1: ON Enabled - Invalid value when SAMEMESSAGE=0.

Key	Value
SAMEMESSAGENUMERIC	ON/OFF for "Exclude Numeric Value" of the identical message suppression function 0: OFF Disabled * Default 1: ON Enabled - Invalid value when SAMEMESSAGE=0.
LOSTPOS	ON/OFF for "Messages of all logs transmit, when continuance of monitoring is impossible" 0: OFF Disabled 1: ON Enabled * Default
CHARCODE	Character encoding 0: ANSI 1: EUC 2: JIS 3: Shift-JIS 4: UTF16BE 5: UTF16LE 6: UTF8 100: Default value * Default - When 100 (default value) is specified, the monitoring is performed using EUC for Linux/Solaris agents, and Shift-JIS for HP-UX agents.
CHARCODE2	Character encoding (Code number specification) 20932: Japanese (JIS 0208-1990 and 0212-1990) 50220: Japanese (JIS) 932: Japanese (Shift-JIS) 1200: Unicode 1201: Unicode (Big-Endian) 65001: Unicode (UTF-8) 20127: US-ASCII 0 : Default value * Default - When 0 (default value) is specified, the monitoring is performed using EUC for Linux/Solaris agents, and Shift-JIS for HP-UX agents.

- When both CHARCODE and CHARCODE2 are specified, the character encoding of CHARCODE2 is used.
- When CHARCODE is not specified, the character encoding of the default value is used. In this case, the character encoding of CHARCODE2 is not used.
- When CHARCODE2 is not specified, the character encoding of CHARCODE2 is used.

(2) Filter definition section [MESSAGE]
The filter definition section is a section included in the monitoring setting section.
Multiple filter definition sections (as many as the number of filter definitions) can be described in one monitoring setting section. When multiple filter definitions exist, describe first the filter to be checked first (the filter at the top in the "Filter Setting" dialog box), then the second one, and so on.
The section between the following start tag and end tag is the filter definition section.
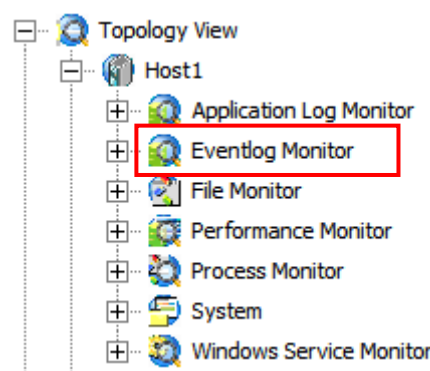Start tag: [MESSAGE]
End tag: [END_MESSAGE]
Place this section within [SYSLOG], and describe the filter definition of the syslog defined in [SYSLOG].

Key	Value
MESSAGENAME	Message overview of the "Filter Setting" tab (up to 256 characters) [Required]
CATEGORY	Category of the "Display Setting" tab (up to 32 characters) [Required]
SEVERITY	Specify the severity of the "Display Setting" tab using the severity ID. (See List of severity IDs) [Required]
NODE	Node of the "Display Setting" tab (up to 256 characters) [Required]
APPLICATION	Application of the "Display Setting" tab (up to 32 characters) [Required]
OBJECT	Object of the "Display Setting" tab (up to 32 characters) [Required]
MESSAGEID	Message ID of the "Display Setting" tab (up to 32 characters) [Required]
TYPE	Type of the "Filter Setting" tab 0: Store * Default 1: Delete
MESSAGETEXT MESSAGETEXT!	Message text of the "Filter Setting" tab (up to 1,024 characters) - Describe MESSAGETEXT when "Not" is OFF, and MESSAGETEXT! when "Not" is ON. Only one of MESSAGETEXT and MESSAGETEXT! can be described.

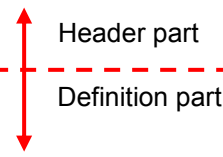| Key	Value
SELPOS SELPOS!	Position specification of the "Filter Setting" tab - Describe SELPOS when "Not" is OFF, and SELPOS! when "Not" is ON. Up to 8 items can be specified in total for both SELPOS and SELPOS!. - The value is specified in the format of (<Position>, "<Comparison value>", <Condition>). <Position>: 1 to 1,024 <Comparison value>: Up to 64 characters <Condition>: =, <>, >=, >, <= or <
SELKEY SELKEY!	Key specification of the "Filter Setting" tab - Describe SELKEY when "Not" is OFF, and SELKEY! when "Not" is ON. Up to 8 items can be specified in total for both SELKEY and SELKEY!. - The value is specified in the format of (<Key value>, "<Comparison value>", <Condition>). <Key value>: Up to 64 characters <Comparison value>: Up to 64 characters <Condition>: =, <>, >=, >, <= or <
MESSAGEIGNORE	ON/OFF for the message suppression function 0: OFF Disabled * Default 1: ON Enabled
MESSAGEIGNOREINTERVAL	Monitoring interval of the message suppression function (unit: second) (1 to 3,600) * Default: 10
MESSAGEIGNORERESET	ON/OFF for the message suppression function reset 0 : OFF Disabled * Default 1 : ON Enabled
MESSAGEIGNOREPASSDELETE	Suppression operation of the message suppression function [Required] 0 : When multiple logs that match the filter are detected during the monitoring interval of the message suppression function, a message is output for the first detected log and the subsequent logs are deleted without being reported. (Logs that matched this filter are not checked or reported even when a filter with priority lower than this filter is specified.) 1 : When multiple logs that match the filter are detected during the monitoring interval of the message suppression function, a message is output for the first detected log and the subsequent logs are not checked for the filter. (When a filter with priority lower than this filter exists, the subsequent logs are checked for the lower priority filter sequentially and a message is output when a log matches the lower priority filter.)

9. Event log monitoring

This chapter explains the description details of the import and export files for the event log monitoring function.
Note that the settings described in this chapter can be performed only for Windows agents.

Service name	Event log monitoring
Service ID	48
Import file name	Any name (up to 17 characters)
Export file name	EventLog.txt

9.1 Overview

An import file example of the even log monitoring function is shown below.

```
FILE:Unified Management Framework                                    ↑   Header part
FUNCTION:EventLogMonitor
VERSION:2.0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -  ↓   Definition part
[EVENTLOG]
        EVENTLOG=Application
        SAMEMESSAGE=1
        SAMEMESSAGECOUNT=1024
        SAMEMESSAGEINTERVAL=10
        SAMEMESSAGERESET=0
        SAMEMESSAGENUMERIC=0
        [MESSAGE]
                MESSAGENAME=Message2
                TYPE=1
                NODE=XXX
                MESSAGEIGNORE=0
                MESSAGEIGNOREINTERVAL=10
                MESSAGEIGNORERESET=0
                MESSAGEIGNOREPASSDELETE=0
        [END_MESSAGE]
        [MESSAGE]
                MESSAGENAME=Message1
                TYPE=0
                SEVERITY=2
                OVERRIDING_SEVERITY=256
                NODE=AAA
                OVERRIDING_NODE=Host2
                APPLICATION=BBB
                OBJECT=CCC
                MESSAGEID=9999
                MESSAGETEXT=DDD
                SELPOS=(3, "EEE", <)
                SELKEY!=("KEY", "FFF", <>)
                MESSAGEIGNORE=0
                MESSAGEIGNOREINTERVAL=10
                MESSAGEIGNORERESET=0
                MESSAGEIGNOREPASSDELETE=0
        [END_MESSAGE]
```

```
[END_EVENTLOG]
[EVENTLOG]
        EVENTLOG=System
        [MESSAGE]
                MESSAGENAME=Default Filter
                TYPE=0
                MESSAGEIGNORE=0
                MESSAGEIGNOREINTERVAL=10
                MESSAGEIGNORERESET=0
                MESSAGEIGNOREPASSDELETE=0


        [END_MESSAGE]
[END_EVENTLOG]
```

9.2 Details

9.2.1 Header part

As the character strings in the header part are fixed, describe the following information as is.

FILE:Unified Management Framework	: Product name (Fixed)
FUNCTION:EventLogMonitor	: Function name (Fixed)
VERSION:2.0	: File version (Fixed)

9.2.2 Definition part

The definition part of the event log monitoring function is composed of the following two sections.

- Monitoring setting section
- Filter definition section

(1) Monitoring setting section [EVENTLOG]

The monitoring setting section is a section that includes the filter definition section.
The section between the following start tag and end tag is the monitoring setting section.
Start tag: [EVENTLOG]
End tag: [END_EVENTLOG]
Root section. Describe the event log monitoring definitions.

Key	Value
EVENTLOG	Event log name (up to 32 characters) [Required] - Application, System, Security, or a custom log name - Use the monitoring window to confirm the custom log name.
SAMEMESSAGE	ON/OFF for "Use Ignore Function" of the identical message suppression function 0: OFF Disabled * Default 1: ON Enabled
SAMEMESSAGECOUNT	Message count of the identical message suppression function (256 to 4,096) * Default: 1024 - Invalid value when SAMEMESSAGE=0.
SAMEMESSAGEINTERVAL	Monitoring interval of the identical message suppression function (1 to 3,600) * Default: 10 - Invalid value when SAMEMESSAGE=0.
SAMEMESSAGERESET	ON/OFF for "Reset Option" of the identical message suppression function 0: OFF Disabled * Default 1: ON Enabled - Invalid value when SAMEMESSAGE=0.
SAMEMESSAGENUMERIC	ON/OFF for "Exclude Numeric Value" of the identical message suppression function 0: OFF Disabled * Default 1: ON Enabled - Invalid value when SAMEMESSAGE=0.

(2) Filter definition section [MESSAGE]

The filter definition section is a section included in the monitoring setting section.

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Multiple filter definition sections (as many as the number of filter definitions) can be described in one monitoring setting section. When multiple filter definitions exist, describe first the filter to be checked first (the filter at the top in the "Filter Setting" dialog box), then the second one, and so on.
The section between the following start tag and end tag is the filter definition section.
Start tag: [MESSAGE]
End tag: [END_MESSAGE]
Place this section within [EVENTLOG], and describe the filter definition of the event log defined in [EVENTLOG].

Key	Value
MESSAGENAME	Message overview of the "Filter Setting" tab (up to 256 characters) [Required]
TYPE	Type of the "Filter Setting" tab 0: Store * Default 1: Delete
SEVERITY SEVERITY!	Severity of the "Filter Setting" tab 1: Success 2: Error 3: Warning 5: Information 9: Audit of succession 17: Audit of failure - Describe SEVERITY when "Not" is OFF, and SEVERITY! When "Not" is ON. Only one of SEVERITY and SEVERITY! can be described.
OVERRIDING_SEVERITY	Specify "Overwrite Severity" on the "Display Setting" tab using the severity ID. (See List of severity IDs)
NODE NODE!	Node of the "Filter Setting" tab (up to 256 characters) - Describe NODE when "Not" is OFF, and NODE! when "Not" is ON. Only one of NODE and NODE! can be described.
OVERRIDING_NODE	"Overwrite Node" on the "Display Setting" tab (up to 256 characters)
APPLICATION APPLICATION!	Application of the "Filter Setting" tab (up to 128 characters) - Describe APPLICATION when "Not" is OFF, and APPLICATION! when "Not" is ON. Only one of APPLICATION and APPLICATION! can be described.
OBJECT OBJECT!	Object of the "Filter Setting" tab (up to 128 characters) - Describe OBJECT when "Not" is OFF, and OBJECT! when "Not" is ON. Only one of OBJECT and OBJECT! can be described.
MESSAGEID MESSAGEID!	Message ID of the "Filter Setting" tab (up to 128 characters) - Describe MESSAGEID when "Not" is OFF, and MESSAGEID! when "Not" is ON. Only one of MESSAGEID and MESSAGEID! can be described.
MESSAGETEXT MESSAGETEXT!	Message text of the "Filter Setting" tab (up to 1,024 characters) - Describe MESSAGETEXT when "Not" is OFF, and MESSAGETEXT! when "Not" is ON. Only one of MESSAGETEXT and MESSAGETEXT! can be described.
SELPOS SELPOS!	Position specification of the "Filter Setting" tab - Describe SELPOS when "Not" is OFF, and SELPOS! when "Not" is ON. Up to 8 items can be specified in total for both SELPOS and SELPOS!. - The value is specified in the format of (<Position>, "<Comparison value>", <Condition>). <Position>: 1 to 1,024 <Comparison value>: Up to 64 characters <Condition>: =, <>, >=, >, <= or <
SELKEY SELKEY!	Key specification of the "Filter Setting" tab - Describe SELKEY when "Not" is OFF, and SELKEY! when "Not" is ON. Up to 8 items can be specified in total for both SELKEY and SELKEY!. - The value is specified in the format of (<Key value>, "<Comparison value>", <Condition>). <Key value>: Up to 64 characters <Comparison value>: Up to 64 characters <Condition>: =, <>, >=, >, <= or <
MESSAGEIGNORE	ON/OFF for the message suppression function 0: OFF Disabled * Default 1: ON Enabled

Key	Value
MESSAGEIGNOREINTERVAL	Monitoring interval of the message suppression function (unit: second) (1 to 3,600) * Default: 10
MESSAGEIGNORERESET	ON/OFF for the message suppression function reset 0: OFF Disabled * Default 1: ON Enabled
MESSAGEIGNOREPASSDELETE	Suppression operation of the message suppression function [Required] 0 : When multiple logs that match the filter are detected during the monitoring interval of the message suppression function, a message is output for the first detected log and the subsequent logs are deleted without being reported. (Logs that matched this filter are not checked or reported even when a filter with priority lower than this filter is specified.) 1 : When multiple logs that match the filter are detected during the monitoring interval of the message suppression function, a message is output for the first detected log and the subsequent logs are not checked for the filter. (When a filter with priority lower than this filter exists, the subsequent logs are checked for the lower priority filter sequentially and a message is output when a log matches the lower priority filter.)

10. File monitoring

This chapter explains the description details of the import and export files for the file monitoring function.

Service name	File monitoring
Service ID	78
Import file name	Any name (up to 17 characters)
Export file name	FileMonitor.txt

10.1 Overview

An import file example of the file monitoring function is shown below.

```
FILE:Unified Management Framework
FUNCTION:FileMonitor                                    Header part
VERSION:2.0
- - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                        Definition part
[GROUP_0]
        INTERVAL=30
        [GROUP_1]
                DISPLAYNAME=Group1
                ICONNAME= C:\Program Files\NEC\UMF\xxx\icon\etc\AAA.ico
                [GROUP_1]
                        DISPLAYNAME=Group1-1
                        ICONNAME=
                        [GROUP_2]
                                DISPLAYNAME=Group1-1-1
                                ICONNAME=
                                [FILE]
                                        DISPLAYNAME=BBB.txt
                                        FILEPATH=C:\AAA\BBB.txt
                                        TYPE=0
                                        SUBDIRECTORY=0
                                        FILEUPDATE=1
                                        THRESHOLD=1
                                        ERRORTHRESHOLD=2
                                        ERRORUNIT=2
                                        WARNINGTHRESHOLD=1
                                        WARNINGUNIT=2
                                        JUDGETYPE=1
                                        JUDGECOUNT=5
                                [END_FILE]
                                [FILE]
                                        DISPLAYNAME=DDD
                                        FILEPATH=D:\CCC\DDD
                                        TYPE=1
                                        SUBDIRECTORY=1
                                        FILEUPDATE=0
                                        THRESHOLD=0
                                        ERRORTHRESHOLD=1
                                        ERRORUNIT=1
                                        WARNINGTHRESHOLD=1
```

```
                                        WARNINGUNIT=1
                                        JUDGETYPE=0
                                        JUDGECOUNT=2
                                        ErrorReport=1
                                        [REPORT]
                                                PatlitePolicy=1
                                        [END_REPORT]
                                [END_FILE]
                        [END_GROUP_2]
                [END_GROUP_1]
        [END_GROUP_1]
        [GROUP_2]
                DISPLAYNAME=Group2
                ICONNAME=
                [FILE]
                        DISPLAYNAME=XXX
                        FILEPATH=C:\XXX
                        TYPE=1
                        SUBDIRECTORY=0
                        FILEUPDATE=0
                        THRESHOLD=1
                        ERRORTHRESHOLD=1
                        ERRORUNIT=2
                        WARNINGTHRESHOLD=500
                        WARNINGUNIT=1
                        JUDGETYPE=0
                        JUDGECOUNT=2
                [END_FILE]
        [END_GROUP_2]
[END_GROUP_0]

[REPORT_DESCTIPTION]
...
[END_REPORT_DESCRIPTION]
```

Report specification information

Report definition information

10.2 Details

10.2.1 Header part
As the character strings in the header part are fixed, describe the following information as is.

```
FILE:Unified Management Framework     : Product name (Fixed)
FUNCTION:FileMonitor                  : Function name (Fixed)
VERSION:2.0                            : File version (Fixed)
```

10.2.2 Definition part
The definition part of the file monitoring function is composed of the following six sections.
- File monitoring section
- Group node section
- Monitoring node section
- Monitoring setting section
- Report specification section
- Report definition section

(1) File monitoring section [GROUP_0]
The file monitoring section is a section that includes the group node section, monitoring node section and monitoring setting section.
The section between the following start tag and end tag is the file monitoring section.
Start tag: [GROUP_0]
End tag: [END_GROUP_0]
Root section. Describe the entire definition of the file monitoring function.

Key	Value

INTERVAL	Monitoring interval (unit: second) - This is ignored when described in an import file. The monitoring interval is output during export.

(2) Group node section [GROUP_1]

The group node section is a section included in the file monitoring section or in the group node section that is the parent group on the console.

The group node section includes a group node section of a child group on the console, or the monitoring node section and monitoring setting section.

The section between the following start tag and end tag is the group node section.

Start tag: [GROUP_1]

End tag: [END_GROUP_1]

Place this section within [GROUP_0] or [GROUP_1] that is the parent group, and describe the definition of the file monitoring group.

The node described in [GROUP_1] is a node that has a child node (child group) in the tree view, and does not have the settings for the monitoring file. [GROUP_1] or [GROUP_2] must be described in [GROUP_1]. Note that [GROUP_1] must be described in a nested structure similarly to the hierarchy structure displayed in the tree view. The method to describe items in a hierarchy structure is the same as "Group node section [GROUP_1]" in "Process monitoring".

Key	Value
DISPLAYNAME	File monitoring group name (up to 64 characters) [Required]
ICONNAME	Absolute path name of the icon file for the file monitoring group node (up to 256 characters) * Default: Use the default icon - The specified icon file must be registered in advance to the machine where the console is installed.

(3) Monitoring node section [GROUP_2]

The monitoring node section is a section included in the group node section.

The monitoring node section includes the monitoring setting section.

The section between the following start tag and end tag is the monitoring node section.

Start tag: [GROUP_2]

End tag: [END_GROUP_2]

Place this section within [GROUP_1] that is the parent group, and describe the definition of the monitoring file.

The node described in [GROUP_2] is the terminal node to specify the monitoring file settings, and does not have a child node (child group) in the tree view. [FILE] must be described in [GROUP_2].

Key	Value
DISPLAYNAME	Monitoring file node name (up to 64 characters) [Required]
ICONNAME	Absolute path name of the icon file for the node (up to 256 characters) * Default: Use the default icon - The specified icon file must be registered in advance to the machine where the console is installed.

(4) Monitoring setting section [FILE]

The monitoring setting section is a section included in the monitoring node section.

The section between the following start tag and end tag is the monitoring setting section.

Start tag: [FILE]

End tag: [END_FILE]

Place this section within [GROUP_2]. Describe the monitoring file settings.

Key	Value
DISPLAYNAME	Display name (up to 64 characters) [Required]
FILEPATH	Absolute path of the monitoring target (up to 256 characters) [Required]
TYPE	Monitoring type 0: File * Default 1: Directory
SUBDIRECTORY	ON/OFF for "Subdirectory is included" of the directory monitoring 0: OFF Disabled * Default 1: ON Enabled - Invalid value when TYPE =0.
FILEUPDATE	ON/OFF for "File update is notified" 0: OFF Disabled * Default 1: ON Enabled - Invalid value when TYPE =0.

Key	Value
THRESHOLD	ON/OFF for "Capacity is observed" 0: OFF Disabled * Default 1: ON Enabled
ERRORTHRESHOLD	Anomalous threshold (1 to 9999) * Default: 1 - Invalid value when THRESHOLD=0. * The anomalous threshold is less than 8 EBytes. When ERRORUNIT=6(EByte) is specified, the anomalous threshold upper limit is 7. When ERRORUNIT=5(PByte) is specified, the anomalous threshold upper limit is 8191.
ERRORUNIT	Unit of anomalous threshold [Do not describe when THRESHOLD=0] 0: Byte 1: KByte * Default 2: MByte 3: GByte 4: TByte 5: PByte 6: EByte
WARNINGTHRESHOLD	Warning threshold (1 to 9999) * Default: 1 - Invalid value when THRESHOLD=0. * The warning threshold is less than 8 EBytes. When WARNINGUNIT=6(EByte) is specified, the warning threshold upper limit is 7. When WARNINGUNIT=5(PByte) is specified, the warning threshold upper limit is 8191.
WARNINGUNIT	Unit of warning threshold [Do not describe when THRESHOLD=0] 0: Byte 1: KByte * Default 2: MByte 3: GByte 4: TByte 5: PByte 6: EByte
JUDGETYPE	Threshold judgment 0: Sequential * Default 1: Continuous 2: Average
JUDGECOUNT	Threshold judgment count (2 to 16) * Default: 2 - Invalid value when JUDGETYPE=0.
ErrorReport	ON/OFF for "Report only when the process status is ERROR". 0: Do not report * Default 1: Report

* To specify a threshold for each of ERRORTHRESHOLD and WARNINGTHRESHOLD, the magnitude relation of the values must be ERRORTHRESHOLD > WARNINGTHRESHOLD.

(5) Report specification section [REPORT]
The section between the following start tag and end tag is the report section.
Start tag: [REPORT]
End tag: [END_REPORT]
Describe this section in the [FILE] section and, in this section, describe the report policies to be used.

Key	Value
PatlitePolicy	Specifies the policy for patrol lamp reporting to be used. Specify "X" of [PATLITE_POLICY_X] described in the reporting definition section.
MailPolicy	Specifies the policy for email reporting to be used. Specify "X" of [MAIL_POLICY_X] described in the reporting definition section.

ActionPolicy	Specifies the policy for action reporting to be used. Specify "X" of [ACTION_POLICY_X] described in the reporting definition section.

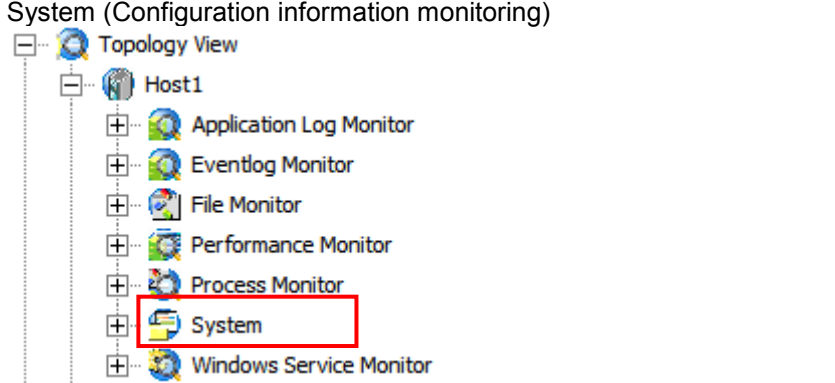## (6) Reporting definition section [REPORT_DESCRIPTION]

Describe the reporting definition. For details, see Reporting funciton.

11. System

This chapter explains the description details of the import and export files for the system (configuration information monitoring).

Function name	System (Configuration information monitoring)
Service ID	14
Import file name	Any name (up to 17 characters)
Export file name	System.txt

11.1 Overview

An import file example of the system (configuration information monitoring) is shown below. Note that only the import and export files of the system do not have the header part.

The format of the import and export files varies depending on the monitoring target, agent or remote host.

Specify using the following example format for each target.

1) Agent

[CompositionInformation] CompanyName="" UserName="" [Interval] DiskPoint=9999 DiskInterval=60 Diskflg=1 NetworkPoint=9999 NetworkInterval=60 Networkflg=0 SoftPoint=9999 SoftInterval=60 Softflg=0 SystemPoint=9999 SystemInterval=0 Systemflg=0 DevicePoint=9999 DeviceInterval=0 Deviceflg=0	Definition part

2) Remote host

[CompositionInformation] CompanyName="" UserName="" StructureKey=RemoteAgent [Interval] RemoteAgentPoint=0 RemoteAgentInterval=60	Definition part

11.2 Details

11.2.1 Header part
The system (configuration information monitoring) does not have the header part.

11.2.2 Definition part
The definition part of the system (configuration information monitoring) is composed of the following two sections.
- Configuration information section
- Monitoring interval section

(1) Configuration information section [CompositionInformation]
Items for an agent and a remote host differ.

1. Agent
The configuration information section is a section that includes the monitoring interval section.
The section between the following start tag and the end of the file is the configuration information section.
Start tag: [CompositionInformation]
The company name and user name are described in the file monitoring section in the following format.
CompanyName="<Company name>"
UserName="<User name>"
The two items above are required items. Use two double quotation marks (") when the item is blank as shown below.
CompanyName=""
UserName=""

2. Remote host
The configuration information section is a section that includes the monitoring interval section.
The section between the following start tag and the end of the file is the configuration information section.
Start tag: [CompositionInformation]
The company name and user name are described in the file monitoring section in the following format.
CompanyName="<Company name>"
UserName="<User name>"
The two items above are required items. Use two double quotation marks (") when the item is blank as shown below.
CompanyName=""
UserName=""
In addition, describe the following item in the file for a remote host.
StructureKey=RemoteAgent
This item is essential to recognize that the file is for a remote host. Double quotation marks (") are not necessary.

(2) Monitoring interval section [Interval]
The items for an agent and a remote host differ.
There are items of monitoring start point (~Point), monitoring interval (~Interval) and latest information (~flg) for each information type.

1. Agent
The monitoring interval section is a section included in the configuration information section.
The section between the following start tag and the end of the file is the monitoring interval section.
Start tag: [Interval]
Describe the details of each item in the monitoring interval section as shown in the table below.

Item name	Details	Default	Required item for importing
DiskPoint	Specify an integer value (*1) for the start point to collect the disk information in the range from 0 to 2,359. Specify 9999 to use the agent startup time as the start point.	-	Required
DiskInterval	Specify an integer value for the disk information collection interval in the range from 0 to 3,600 (unit: minute). Note that the information is collected only at agent startup when 0 is specified.	-	Required

Item name	Details	Default	Required item for importing
Diskflg	Specify whether or not to display the latest information every time the disk information is displayed. 0 : Do not display the latest information. 1 : Always display the latest information.	-	Required
NetworkPoint	Specify an integer value (*1) for the start point to collect the network information in the range from 0 to 2,359. Specify 9999 to use the agent startup time as the start point.	-	Required
NetworkInterval	Specify an integer value for the network information collection interval in the range from 0 to 3,600 (unit: minute). Note that the information is collected only at agent startup when 0 is specified.	-	Required
Networkflg	Specify whether or not to display the latest information every time the network information is displayed. 0 : Do not display the latest information. 1 : Always display the latest information.	-	Required
SoftPoint	Specify an integer value (*1) for the start point to collect the software information in the range from 0 to 2,359. Specify 9999 to use the agent startup time as the start point.	-	Required
SoftInterval	Specify an integer value for the software information collection interval in the range from 0 to 3,600 (unit: minute). Note that the information is collected only at agent startup when 0 is specified.	-	Required
Softflg	Specify whether or not to display the latest information every time the software information is displayed. 0 : Do not display the latest information. 1 : Always display the latest information.	-	Required
SystemPoint	Specify an integer value (*1) for the start point to collect the system information in the range from 0 to 2,359. Specify 9999 to use the agent startup time as the start point.	-	Required
SystemInterval	Specify an integer value for the system information collection interval in the range from 0 to 3,600 (unit: minute). Note that the information is collected only at agent startup when 0 is specified.	-	Required
Systemflg	Specify whether or not to display the latest information every time the system information is displayed. 0 : Do not display the latest information. 1 : Always display the latest information.	-	Required
DevicePoint	Specify an integer value (*1) for the start point to collect the device information in the range from 0 to 2,359. Specify 9999 to use the agent startup time as the start point.	-	Required
DeviceInterval	Specify an integer value for the device information collection interval in the range from 0 to 3,600 (unit: minute). Note that the information is collected only at agent startup when 0 is specified.	-	Required

Item name	Details	Default	Required item for importing
Deviceflg	Specify whether or not to display the latest information every time the device information is displayed. 0 : Do not display the latest information. 1 : Always display the latest information.	-	Required

(*1) Specify a value in the time format (HH:MM) but without a colon (:).
　　　Example 1) Specify 1255 to use "12:55" as the start point.
　　　Example 2) Specify 0 to use "00:00" as the start point.

2. Remote host
The monitoring interval section is a section included in the configuration information section.
The section between the following start tag and the end of the file is the monitoring interval section.
Start tag: [Interval]
Describe the details of each item in the monitoring interval section as shown in the table below.
The format of each item is as follows:
<Item name>=<Details>

Item name	Details	Default	Required item for importing
RemoteAgentPoint	Specify an integer value (*1) for the start point to collect the remote host information in the range from 0 to 2,359. (Unlike the agent, the startup time cannot be specified as the start point.)	-	Required
RemoteAgentInterval	Specify an integer value for the remote host information collection interval in the range from 0 to 1,440 (unit: minute). Note that the information is collected only on startup of the remote agent that monitors the remote host when 0 is specified.	-	Required

(*1) Specify a value in the time format (HH:MM) but without a colon (:).
　　　Example 1) Specify 1255 to use "12:55" as the start point.
　　　Example 2) Specify 0 to use "00:00" as the start point.

The following rules are applied while importing a file that was exported from a remote host, to an agent.
- The monitoring interval and monitoring start point of the entire remote hosts are used as the monitoring interval and monitoring start point for each type.
- Since the specification for "Latest Information" is not valid for remote hosts, "Not Displays" is specified for each type.

The following rules are applied while importing a file that was exported from an agent, to a remote host.
- The shortest monitoring interval among the monitoring intervals for all types except 0 is applied to the monitoring interval for the entire remote hosts.
- Only when the monitoring intervals of all types are 0, 0 "When starting, it observes it" is applied to the monitoring interval for the entire remote hosts.
- When "When starting, it observes it" is specified for the remote host monitoring interval, the configuration information of the monitoring target might not be displayed. If the configuration information is not displayed, obtain the latest information manually.
- If the remote host monitoring interval is larger than the maximum value 1440, 1440 is applied to the remote host monitoring interval.
- Only when the monitoring start points of all types are the same, it is applied to the monitoring start point for remote hosts.
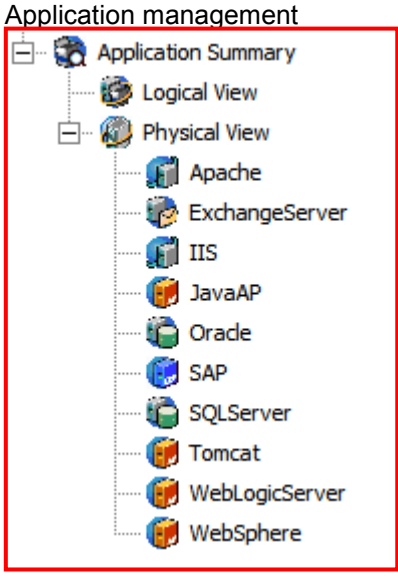If they are not the same, [00:00] is applied to the monitoring start point.
- The specification for "Latest Information" is not valid for remote hosts.

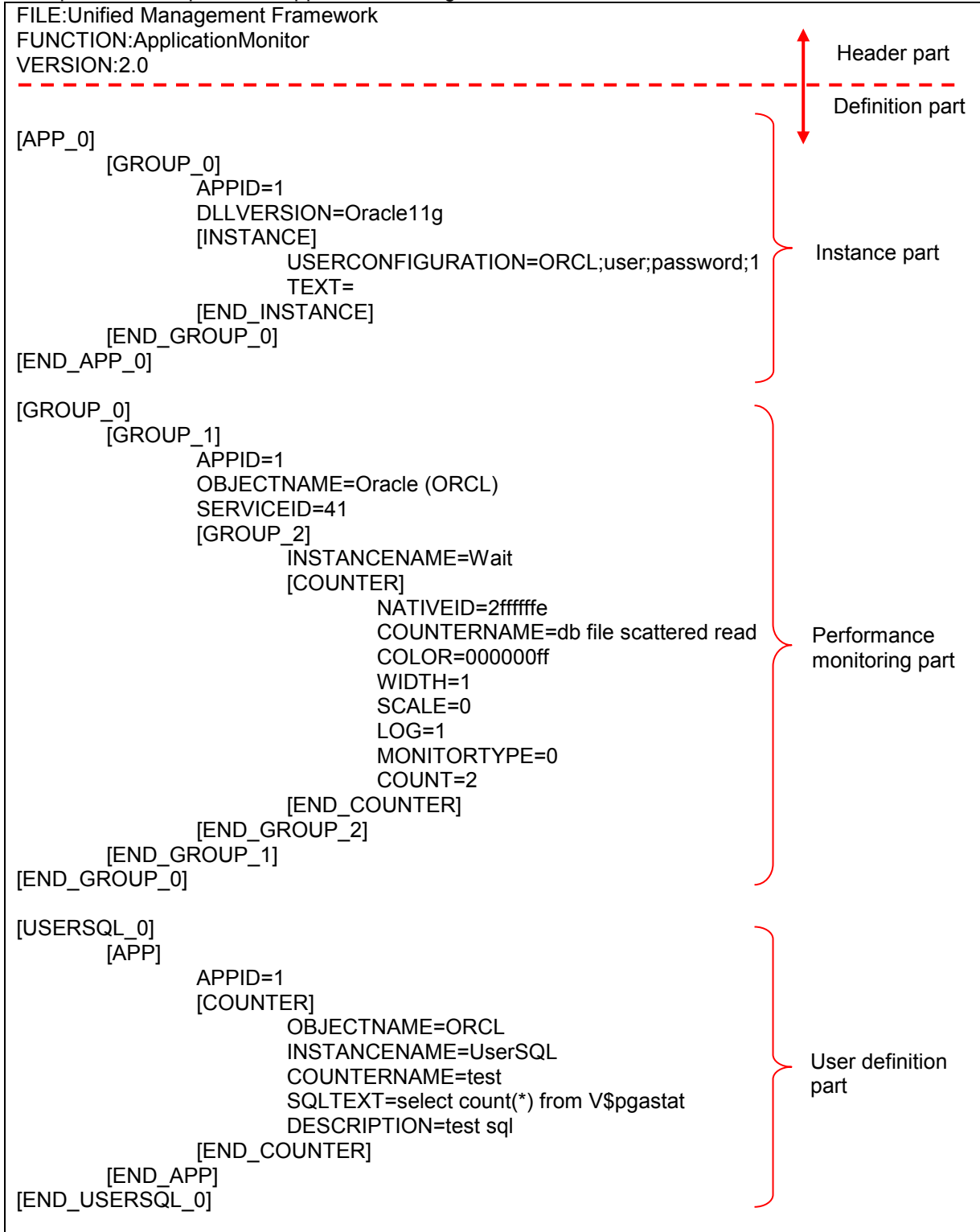# 12. Application management

This chapter explains the description details of the import and export files for the application management function.
Note that the settings described in this chapter can be performed only for agents where Application Navigator agent is installed.

Function name	Application management
	Application Summary 　Logical View 　Physical View 　　Apache 　　ExchangeServer 　　IIS 　　JavaAP 　　Oracle 　　SAP 　　SQLServer 　　Tomcat 　　WebLogicServer 　　WebSphere
Service ID	41
Import file name	Any name (up to 17 characters)
Export file name	ApplicationMonitor.txt

12.1 Overview

An import file example of the application management is shown below.

```
FILE:Unified Management Framework
FUNCTION:ApplicationMonitor                        │ Header part
VERSION:2.0
- - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    │ Definition part

[APP_0]
        [GROUP_0]
                APPID=1
                DLLVERSION=Oracle11g
                [INSTANCE]                           │ Instance part
                        USERCONFIGURATION=ORCL;user;password;1
                        TEXT=
                [END_INSTANCE]
        [END_GROUP_0]
[END_APP_0]

[GROUP_0]
        [GROUP_1]
                APPID=1
                OBJECTNAME=Oracle (ORCL)
                SERVICEID=41
                [GROUP_2]
                        INSTANCENAME=Wait
                        [COUNTER]
                                NATIVEID=2fffffe
                                COUNTERNAME=db file scattered read   │ Performance
                                COLOR=000000ff                         monitoring part
                                WIDTH=1
                                SCALE=0
                                LOG=1
                                MONITORTYPE=0
                                COUNT=2
                        [END_COUNTER]
                [END_GROUP_2]
        [END_GROUP_1]
[END_GROUP_0]

[USERSQL_0]
        [APP]
                APPID=1
                [COUNTER]
                        OBJECTNAME=ORCL
                        INSTANCENAME=UserSQL
                        COUNTERNAME=test                 │ User definition
                        SQLTEXT=select count(*) from V$pgastat   part
                        DESCRIPTION=test sql
                [END_COUNTER]
        [END_APP]
[END_USERSQL_0]
```

12.2 Details

12.2.1 Header part

As the character strings in the header part are fixed, describe the following information as is.

FILE:Unified Management Framework	: Product name (Fixed)
FUNCTION:ApplicationMonitor	: Function name (Fixed)
VERSION:2.0	: File version (Fixed)

12.2.2 Definition part

The definition part is composed of three parts, namely the instance part, performance monitoring part and user definition part.

(1) Instance part

The instance part includes the following sections.

- Instance section
- Monitoring application section
- Application instance section

(1-1) Instance section [APP_0]

The instance section is a section that includes the monitoring application section and application instance section.

The section between the following start tag and end tag is the instance section.

Start tag: [APP_0]

End tag: [END_APP_0]

(1-2) Monitoring application section [GROUP_0]

The monitoring application section is a section included in the instance section.

It includes the application instance section.

The section between the following start tag and end tag is the monitoring application section.

Start tag: [GROUP_0]

End tag: [END_GROUP_0]

Describe the details of each item in the monitoring application section as shown in the table below.

Item name	Details	Default	Required item for importing
APPID	Specify the monitoring application management ID by using a numeric value. 1 : Oracle 3 : SQLServer 4 : WebLogic 9 : Apache 10 : Tomcat 11 : SAP 13 : Java application 14 : WebSphere IIS monitoring is out of target because application connection is not set up.	-	Required
DLLVERSION	Specify the application type to monitor by using a character string. The following four types can be specified. Oracle11g Oracle12c SQLServer WebLogic Apache Tomcat SAP JavaAP WebSphere	-	Required

(1-3) Application instance section [INSTANCE]

The application instance section is a section included in the monitoring application instance.

The section between the following start tag and end tag is the application instance section.
Start tag: [INSTANCE]
End tag: [END_INSTANCE]
Describe the details of each item in the application instance section as shown in the table below.

Item name	Details	Default	Required item for importing
USERCONFIGURATION or USERCONFIGURATION (*1)	Specify the definition of the connection to the application instance. Either CONFIGURATION or USERCONFIGURATION is required.The details are described later.	-	Required
TEXT	Specify the description of the instance by using up to 255 characters. Specify "＿＿NL＿＿" to insert a line feed in the description. (*2)	-	Optional

(*1) This item is output under the item name "CONFIGURATION" in the export file with a Base 64 encoded password for connection definition. When describing a plain text password when creating an import file based on the export file, change the item name to "USERCONFIGURATION". When describing a Base 64 encoded password, use "CONFIGURATION" as is. Semicolons cannot be specified in the items in "CONFIGURATION" and "USERCONFIGURATION."
(*2) "＿＿NL＿＿" is counted as two characters.

■ A value specified for USERCONFIGURATION
● When the monitoring application is Oracle
The information is described in the following format: Note that the last character is fixed to "1".
<Instance name>;<User name>;<Password>;1
The formats for <Instance name>, <User name> and <Password> are shown below.

Item name	Details	Default	Required item for importing
<Instance name>	Specify the Oracle net service name (connection identifier) to be connected by using up to 64 characters. Only one-byte alphanumeric characters and underscores (_) can be used. Note that a unique name in the application must be specified.	-	Required
<User name>	Specify a user with the SYSDBA authority by using up to 30 characters when the using the Password authentication . Leave this item blank when using the OS authentication.	-	Required when using the Password authentication
<Password>	Specify the password for the user specified in <User name> by using up to 30 characters when using the Password authentication. Leave this item blank when using the OS authentication.	-	Required when using the Password authentication

Example 1: To connect to the instance "orcl" using the OS authentication
　　　　orcl;;;1
Example 2: To specify a user "sys" and a password "password" for the instance "orcl"
　　　　orcl;sys;password;1

● When the monitoring application is SQLServer
The information is described in the following format:
<Instance name>;<User name>;<Password>;<Connection mode>
The formats for <Instance name>, <User name>, <Password> and <Connection mode> are shown below.

Item name	Details	Default	Required item for importing
<Instance name>	Specify the SQL Server host name (default instance) or [Host name\Instance name] (named instance) to be connected by using up to 64 characters. One-byte alphanumeric characters, underscores (_), periods (.), hyphens (-), percent marks (%) and backslashes (\) can be used. Note that a unique name in the application must be	-	Required

	specified.		
<User name>	Specify "sa" (user with sysadmin authority) when using SQLServer authentication. Leave this item blank when using Windows authentication.	-	Required when using SQLServer authentication
<Password>	Specify the password for the "sa" user by using up to 30 characters when using SQLServer authentication. Only one-byte alphanumeric characters can be used. Leave this item blank when using Windows authentication.	-	Required when using SQLServer authentication
<Connection mode>	Specify the connection mode to be used by using a numeric value. 1 : SQLServer authentication 2 : Windows authentication	-	Required

Example 1: To specify a user "sa" and a password "password" for the instance "ServerA", and connect using SQLServer authentication

ServerA;sa;password;1

Example 2: To connect to the instance "ServerA" using Windows authentication

ServerA;;;2

● When the monitoring application is WebLogic
The information is described in the following format:
<Server name>;<User name>;<Password>;<Port number>;<Host name>;<Server ID>
The formats for <Server ID>, <Server name>, <Host name>, <Port number>, <User name> and <Password > are shown below.

Item name	Details	Default	Required item for importing
<Server ID>	Specify the ID for identification of the server by using up to 64 characters. One-byte alphanumeric characters and underscores (_) can be used. Note that a unique name in the application must be specified.	-	Required
<Server name>	Specify the WebLogic server name to which you will establish a connection.	-	Required
<Host name>	Specify the monitored host name by using up to 64 characters. Multi-byte characters cannot be used.	-	Required
<Port number>	Specify the monitored port number. Specify a value within the range from 1 to 65535.	-	Required
<User name>	Specify the user by using up to 30 characters.	-	Required
<Password>	Specify the password for the user specified in <User name> by using up to 30 characters.	-	Required

Example: To specify Server ID "WebServer", Server name "AdminServer", Host name "localhost", Port number "7001", User name "weblogic" and Password "password"

AdminServer;weblogic;password;7001;localhost;WebServer

● When the monitoring application is Apache
The information is described in the following format:
<Server ID>;<Server name>;<Port number>;<IP version>
The formats for <Server ID>, <Server name>, <Port number> and <IP version> are shown below.

Item name	Details	Default	Required item for importing
<Server ID>	Specify the ID for identification of the server by using up to 64 characters. One-byte alphanumeric characters and underscores (_) can be used. Note that a unique name in the application must be specified.	-	Required
<Server name>	Specify the monitored server name by using up to 255 characters.	-	Required
<Port number>	Specify the monitored port number. Specify a value within the range from 1 to 65535.	-	Required
<IP version>	Specify the IP version. 4: IPv4	4	Optional

| | | 6; IPv6 | | |

Example: To specify Server ID "WebServer", Server name "localhost.localdomain", Port number "80" and IP version "4"

        WebServer;localhost.localdomain;80;4

● When the monitoring application is Tomcat
The information is described in the following format:
<Server ID>;<Host name>;<Port number>;<User name>;<Password>;<Tomcat version>
The formats for <Server ID>, <Host name>, <Port number>, <User name>, <Password> and <Tomcat version> are shown below.

Item name	Details	Default	Required item for importing
<Server ID>	Specify the ID for identification of the server by using up to 64 characters. One-byte alphanumeric characters and underscores (_) can be used. Note that a unique name in the application must be specified.	-	Required
<Host name>	Specify the monitored host name by using up to 255 characters.	-	Required
<Port number>	Specify the monitored port number. Specify a value within the range from 1 to 65535.	-	Required
<User name>	Specify a user by using up to 64 characters when using password authentication. Leave this item blank when not using authentication.	-	Required when using password authentication
<Password>	Specify the password for the user specified in <User name> by using up to 30 characters when the password authentication is used. Leave this item blank when not using authentication.	-	Required when using password authentication
<Tomcat version>	Specify the Tomcat version. 6.0 7.0 8.0 Specify 8.0 when using Tomcat 8.5.	-	Required

Example1: To specify Server ID "APServer", Host name "localhost", Port number "8999", Tomcat version "8.0" and not using authentication

        APServer;localhost;8999;;;8.0

Example2: To specify Server ID "APServer", Host name "localhost", Port number "8999", Tomcat version "8.0", User name "User", Password "password" and using password authentication

        APServer;localhost;8999;User;password;8.0

● When the monitoring application is SAP
The information is described in the following format:
<Instance ID>; <Host name>; <System ID>; <Instance name>; <System number>; <Client>; <User name>; <Password>; <Language>;<IP version>
The formats for <Instance ID>, <Host name>, <System ID>, <Instance name>, <System number>, <Client>, <User name>, <Password>, <Language> and <IP version> are shown below.

Item name	Details	Default	Required item for importing
<Instance ID>	Specify the ID for identification of the instance by using up to 64 characters. One-byte alphanumeric characters and underscores (_) can be used. Note that a unique name in the application must be specified.	-	Required
<Host name>	Specify the monitored host name by using up to 255 characters. Multi-byte characters cannot be used.	-	Required
<System ID>	Specify the SAP system ID by using up to 8 characters. Multi-byte characters cannot be used.	-	Required
<Instance name>	Specify the SAP instance name by using up to 20 characters. Multi-byte characters cannot be used.	-	Required
<System number>	Specify the system number of the SAP system by	-	Required

	using up to 2 characters. Only one-byte numeric characters can be entered.		
<Client>	Specify the name of the client to which the SAP user belongs by using up to 3 characters (system number assigned to the connection destination dialog instance). Only one-byte numeric characters can be entered.	-	Required
<User name>	Specify the SAP user name by using up to 12 characters. Only ASCII characters (0x20-0x7F except for ";" (semicolon)) can be entered.	-	Required
<Password>	Specify the password of the SAP user name by using up to 12 characters. Only ASCII characters (0x20-0x7F except for ";" (semicolon)) can be entered.	-	Required
<Language>	Specify one of the following languages for connection. Japanese: JA English: EN	-	Required
<IP version>	Specify the IP version. 4: IPv4 6; IPv6	4	Optional

Example: To specify Instance ID "SAP01", Host name "localhost", System ID "EC6", Instance name "SAP_EC6_00", System number "00", Client "100", User name "appnavi", Password "password", Language "JA" and IP version "4"

      SAP01;localhost;EC6;SAP_EC6_00;00;100;appnavi;password;JA;4

● When the monitoring application is Java application

The information is described in the following format:

<Instance ID>;<Connection URL>;<User name>;<Password>

The formats for <Instance ID>, <Connection URL>, <User name> and <Password> are shown below.

Item name	Details	Default	Required item for importing
<Instance ID>	Specify the ID for identification of the instance by using up to 64 characters. One-byte alphanumeric characters and underscores (_) can be used. Note that a unique name in the application must be specified.	-	Required
<Connection URL>	Specify the JMX connection URL for connection to the Java application by using up to 256 characters. Multi-byte characters cannot be used.	-	Required
<User name>	Specify a user by using up to 64 characters when using password authentication. Leave this item blank when not using authentication.	-	Required when using password authentication
<Password>	Specify the password for the user specified in <User name> by using up to 30 characters when the password authentication is used. Leave this item blank when not using authentication.	-	Required when using password authentication

Example1: To specify Instance ID "Instance", Connection URL " service:jmx:rmi:///jndi/rmi://localhost:8999/jmxrmi" and not using authentication

      Instance;service:jmx:rmi:///jndi/rmi://localhost:8999/jmxrmi;;

Example2: To specify Instance ID "Instance", Connection URL " service:jmx:rmi:///jndi/rmi://localhost:8999/jmxrmi", User name "User", Password "password" and using password authentication

      Instance;service:jmx:rmi:///jndi/rmi://localhost:8999/jmxrmi;User;password

● When the monitoring application is WebSphere

The information is described in the following format:

<Server ID>;<Host name>;<Port number>;<User name>;<Password>;<Trust store file path>;<Trust store password>

The formats for <Server ID>, <Host name>, <Port number>, <User name>, <Password>, <Trust store file path> and <Trust store password> are shown below.

Item name	Details	Default	Required item for

			importing
<Server ID>	Specify the ID for identification of the server by using up to 32 characters. One-byte alphanumeric characters and underscores (_) can be used. Note that a unique name in the application must be specified.	-	Required
<Host name>	Specify the monitored host name by using up to 64 characters. Multi-byte characters cannot be used.	-	Required
<Port number>	Specify the monitored port number. Specify a value within the range from 1 to 65535.	-	Required
<User name>	Specify a user by using up to 32 characters. Leave this item blank when WAS management security is not enabled.	-	Optional
<Password>	Specify the password for the user specified in <User name> by using up to 32 characters. Leave this item blank when WAS management security is not enabled.	-	Optional
<Trust store file path	Specify the absolute path of the trust store file in the JKS (Java keystore) format to authenticate WAS by using up to 260 characters. Leave this item blank when WAS management security is not enabled. It is not necessary to escape \ and /.	-	Optional
<Trust store password>	Specify the password for the trust store file to connect to WAS by using up to 32 characters. Leave this item blank when WAS management security is not enabled.	-	Optional

Example1: To specify Server ID "APServer", Host name "localhost", Port number "6212", User name "User", Password "password" and WAS management security is not enabled

　　　APServer;localhost;6212;websphere;password;;

Example2: To specify Server ID "APServer", Host name "localhost", Port number "6212", User name "User", Password "password", Trust store file path "/opt/WebSphere/lib//keystore.jks", Trust store password "password" and WAS management security is enabled

　　　APServer;localhost;6212;User;password;/opt/Websphere/lib/keystore.jks;password

■ Values specified for CONFIGURATION
● When the monitoring application is Oracle
The information is described in the following format: Note that the last character is fixed to "1".
<Instance name>;<User name>;<Base64 encoded password>;1
The formats for <Instance name>, <User name> and <Base64 encoded password> are shown below.

Item name	Details	Default	Required item for importing
<Instance name>	Specify the Oracle net service name (connection identifier) to be connected by using up to 64 characters. Only one-byte alphanumeric characters and underscores (_) can be used. Note that a unique name in the application must be specified.	-	Required
<User name>	Specify a user with the SYSDBA authority by using up to 30 characters when using password authentication. Leave this item blank when using the OS authentication.	-	Required when using password authentication
<Base64 encoded password>	Specify the Base64 encoded value of the password of the user specified in <User name> when using password authentication. Specify a password of up to 30 characters before Base64 encoding. Leave this item blank when using the OS authentication.	-	Required when using password authentication

Example 1: To connect to the instance "orcl" using the OS authentication

　　　orcl;;;1

Example 2: To specify a user "sys" and a password "password" for the instance "orcl"

　　　orcl;sys;cGFzc3dvcmQ;1

(Specify the Base64 encoded string for Password)
Conversion for Base64 encoding can be performed by using Windows PowerShell.
Example: [System.Convert]::ToBase64String([System.Text.Encoding]::ASCII.GetBytes("password"))

● When the monitoring application is SQLServer
The information is described in the following format:
<Instance name>;<User name>;<Base64 encoded password>;<Connection mode>
The formats for <Instance name>, <User name>, <Base64 encoded password> and <Connection mode> are shown below.

Item name	Details	Default	Required item for importing
<Instance name>	Specify the SQL Server host name (default instance) or [Host name\Instance name] (named instance) to be connected by using up to 64 characters. One-byte alphanumeric characters, underscores (_), periods (.), hyphens (-), percent marks (%) and backslashes (\) can be used. Note that a unique name in the application must be specified.	-	Required
<User name>	Specify "sa" (user with sysadmin authority) when using SQLServer authentication. Leave this item blank when using Windows authentication.	-	Required when using SQLServer authentication
<Base64 encoded password>	Specify the Base64 encoded value of the password of the sa user when using SQLServer authentication. Specify a password of up to 30 characters before Base64 encoding. Only one-byte alphanumeric characters can be used. Leave this item blank when using Windows authentication.	-	Required when using SQLServer authentication
<Connection mode>	Specify the connection mode to be used by using a numeric value. 1: SQLServer authentication 2: Windows authentication	-	Required

Example 1: To specify User "sa" and Password "password" for Instance "ServerA", and connect using SQLServer authentication
    ServerA;sa;cGFzc3dvcmQ;1
    (Specify the Base64 encoded string for Password)
    Conversion for Base64 encoding can be performed by using Windows PowerShell.
    Example: [System.Convert]::ToBase64String([System.Text.Encoding]::ASCII.GetBytes("password"))
Example 2: To connect to Instance "ServerA" using Windows authentication
    ServerA;;;2

● When the monitoring application is WebLogic
The information is described in the following format:
<Server name>;<User name>;<Base64 encoded password>;<Port number>;<Host name>;<Server ID>
The formats for <Server ID>, <Server name>, <Host name>, <Port number>, <User name> and <Base64 encoded password> are shown below.

Item name	Details	Default	Required item for importing
<Server ID>	Specify the ID for identification of the server by using up to 64 characters. One-byte alphanumeric characters and underscores (_) can be used. Note that a unique name in the application must be specified.	-	Required
<Server name>	Specify the WebLogic server name to which you will establish a connection.	-	Required
<Host name>	Specify the monitored host name by using up to 64 characters. Multi-byte characters cannot be used.	-	Required
<Port number>	Specify the monitored port number. Specify a value within the range from 1 to 65535.	-	Required
<User name>	Specify the user by using up to 30 characters.	-	Required
<Base64 encoded	Specify the Base64 encoded value of the password	-	Required

	of the user specified in \<User name>. Specify a password of up to 30 characters before Base64 encoding.		

Example: To specify Server ID "WebServer", Server name "AdminServer", Host name "localhost", Port number "7001", User name "weblogic" and Password "password"

    AdminServer;weblogic;cGFzc3dvcmQ;7001;localhost;WebServer

    (Specify the Base64 encoded string for Password)

    Conversion for Base64 encoding can be performed by using Windows PowerShell.

    Example: [System.Convert]::ToBase64String([System.Text.Encoding]::ASCII.GetBytes("password"))

● When the monitoring application is Apache

The information is described in the following format:

\<Server ID>;\<Server name>;\<Port number>;\<IP version>

The formats for \<Server ID>, \<Server name>, \<Port number> and \<IP version> are shown below.

Item name	Details	Default	Required item for importing
\<Server ID>	Specify the ID for identification of the server by using up to 64 characters. One-byte alphanumeric characters and underscores (_) can be used. Note that a unique name in the application must be specified.	-	Required
\<Server name>	Specify the monitored server name by using up to 255 characters.	-	Required
\<Port number>	Specify the monitored port number. Specify a value within the range from 1 to 65535.	-	Required
\<IP version>	Specify the IP version. 4: IPv4 6; IPv6	4	Optional

Example: To specify Server ID "WebServer", Server name "localhost.localdomain", Port number "80" and IP version "4"

    WebServer;localhost.localdomain;80;4

● When the monitoring application is Tomcat

The information is described in the following format:

\<Server ID>;\<Host name>;\<Port number>;\<User name>;\<Base64 encoded password>;\<Tomcat version>

The formats for \<Server ID>, \<Host name>, \<Port number>, \<User name>, \<Base64 encoded password> and \<Tomcat version> are shown below.

Item name	Details	Default	Required item for importing
\<Server ID>	Specify the ID for identification of the server by using up to 64 characters. One-byte alphanumeric characters and underscores (_) can be used. Note that a unique name in the application must be specified.	-	Required
\<Host name>	Specify the monitored host name by using up to 255 characters.	-	Required
\<Port number>	Specify the monitored port number. Specify a value within the range from 1 to 65535.	-	Required
\<User name>	Specify a user by using up to 64 characters when using password authentication. Leave this item blank when not using authentication.	-	Required when using password authentication
\<Base64 endoded password>	Specify the Base64 encoded value of the password of the user specified in \<User name> when using password authentication. Specify a password of up to 30 characters before Base64 encoding. Leave this item blank when not using authentication.	-	Required when using password authentication
\<Tomcat version>	Specify the Tomcat version. 6.0 7.0 8.0 Specify 8.0 when using Tomcat 8.5.	-	Required

Example1: To specify Server ID "APServer", Host name "localhost", Port number "8999", Tomcat version "8.0" and not using authentication

APServer;localhost;8999;;;8.0

Example2: To specify Server ID "APServer", Host name "localhost", Port number "8999", Tomcat version "8.0", User name "User", Password "password" and using password authentication

APServer;localhost;8999;User;cGFzc3dvcmQ;8.0

(Specify the Base64 encoded string for Password)

Conversion for Base64 encoding can be performed by using Windows PowerShell.

Example: [System.Convert]::ToBase64String([System.Text.Encoding]::ASCII.GetBytes("password"))

● When the monitoring application is SAP

The information is described in the following format:

<Instance ID>;<Host name>;<System ID>;<Instance name>;<System number>;<Client>;<User name>; <Base64 encoded password>;<Language>

The formats for <Instance ID>, <Host name>, <System ID>, <Instance name>, <System number>, <Client>, <User name>, <Base64 encoded password>, and <Language> are shown below.

Item name	Details	Default	Required item for importing
<Instance ID>	Specify the ID for identification of the instance by using up to 64 characters. One-byte alphanumeric characters and underscores (_) can be used. Note that a unique name in the application must be specified.	-	Required
<Host name>	Specify the monitored host name by using up to 255 characters. Multi-byte characters cannot be used.	-	Required
<System ID>	Specify the SAP system ID by using up to 8 characters. Multi-byte characters cannot be used.	-	Required
<Instance name>	Specify the SAP instance name by using up to 20 characters. Multi-byte characters cannot be used.	-	Required
<System number>	Specify the system number of the SAP system by using up to 2 characters. Only one-byte numeric characters can be entered.	-	Required
<Client>	Specify the name of the client to which the SAP user belongs by using up to 3 characters (system number assigned to the connection destination dialog instance). Only one-byte numeric characters can be entered.	-	Required
<User name>	Specify the SAP user name by using up to 12 characters. Only ASCII characters (0x20-0x7F except for ";" (semicolon)) can be entered.	-	Required
<Base64 encoded password>	Specify the Base64 encoded value of the password of the SAP user. Specify a password of up to 12 characters before Base64 encoding. Only ASCII characters (0x20-0x7F except for ";" (semicolon)) can be entered.	-	Required
<Language>	Specify one of the following languages for connection. Japanese: JA English: EN	-	Required

Example: To specify Host name "localhost", System ID "EC6", Instance name "SAP_EC6_00", System number "00", Client "100", User name "appnavi", Password "password", and Language "JA" for Instance ID "SAP01"

SAP01;localhost;EC6;SAP_EC6_00;00;100;appnavi;cGFzc3dvcmQ;JA

(Specify the Base64 encoded string for Password)

Conversion for Base64 encoding can be performed by using Windows PowerShell.

Example: [System.Convert]::ToBase64String([System.Text.Encoding]::ASCII.GetBytes("password"))

● When the monitoring application is Java application

The information is described in the following format:

<Instance ID>;<Connection URL >;<User name>;<Base64 encoded password>

The formats for <Instance ID>, <Connection URL>, <User name> and <Base64 encoded password> are shown below.

Item name	Details	Default	Required item for importing
<Instance ID>	Specify the ID for identification of the instance by using up to 64 characters. One-byte alphanumeric characters and underscores (_) can be used. Note that a unique name in the application must be specified.	-	Required
<Connection URL>	Specify the JMX connection URL for connection to the Java application by using up to 256 characters. Multi-byte characters cannot be used.	-	Required
<User name>	Specify a user by using up to 64 characters when using password authentication. Leave this item blank when not using authentication.	-	Required when using password authentication
<Base64 encoded password>	Specify the Base64 encoded value of the password of the user specified in <User name> when using password authentication. Specify a password of up to 30 characters before Base64 encoding. Leave this item blank when not using authentication.	-	Required when using password authentication

Example1: To specify Instance ID "Instance", Connection URL "service:jmx:rmi:///jndi/rmi://localhost:8999/jmxrmi" and not using authentication

      Instance;service:jmx:rmi:///jndi/rmi://localhost:8999/jmxrmi;;

Example2: To specify Instance ID "Instance", Connection URL "service:jmx:rmi:///jndi/rmi://localhost:8999/jmxrmi", User name "User", Password "password" and using password authentication

      Instance;service:jmx:rmi:///jndi/rmi://localhost:8999/jmxrmi;User;`cGFzc3dvcmQ`

      (Specify the Base64 encoded string for Password)

      Conversion for Base64 encoding can be performed by using Windows PowerShell.

      Example: [System.Convert]::ToBase64String([System.Text.Encoding]::ASCII.GetBytes("password"))

● When the monitoring application is WebSphere

The information is described in the following format:

<Server ID>;<Host name>;<Port number>;<User name>;<Base64 encoded password>;<Trust store file path>;<Base64 encoded trust store password>

The formats for <Server ID>, <Host name>, <Port number>, <User name>, <Base64 encoded password>, <Trust store file path> and <Base64 encoded trust store password> are shown below.

Item name	Details	Default	Required item for importing
<Server ID>	Specify the ID for identification of the server by using up to 32 characters. One-byte alphanumeric characters and underscores (_) can be used. Note that a unique name in the application must be specified.	-	Required
<Host name>	Specify the monitored host name by using up to 64 characters. Multi-byte characters cannot be used.	-	Required
<Port number>	Specify the monitored port number. Specify a value within the range from 1 to 65535.	-	Required
<User name>	Specify a user by using up to 32 characters. Leave this item blank when WAS management security is not enabled.	-	Optional
<Base64 encoded password>	Specify the Base64 encoded value of the password of the user specified in <User name>. Specify a password of up to 32 characters before Base64 encoding. Leave this item blank when WAS management security is not enabled.	-	Optional
<Trust store file path	Specify the absolute path of the trust store file in the JKS (Java keystore) format to authenticate WAS by using up to 260 characters. Leave this item blank when WAS management security is not enabled. It is not necessary to escape \ and /.	-	Optional
<Base64 encoded	Specify the Base64 encoded value of the password	-	Optional

	for the trust store file to connect to WAS. Specify a password of up to 32 characters before Base64 encoding. Leave this item blank when WAS management security is not enabled.		
trust store password>			

Example1: To specify Server ID "APServer", Host name "localhost", Port number "6212", User name "User", Password "password" and WAS management security is not enabled

      APServer;localhost;6212;websphere;**cGFzc3dvcmQ**;;

Example2: To specify Server ID "APServer", Host name "localhost", Port number "6212", User name "User", Password "password", Trust store file path "/opt/WebSphere/lib//keystore.jks", Trust store password "password" and WAS management security is enabled

      APServer;localhost;6212;User;**cGFzc3dvcmQ**;/opt/WebSphere/lib/keystore.jks;**cGFzc3dvcmQ**

      (Specify the Base64 encoded string for Password)

      Conversion for Base64 encoding can be performed by using Windows PowerShell.

      Example: [System.Convert]::ToBase64String([System.Text.Encoding]::ASCII.GetBytes("password"))

(2) Performance monitoring part

The performance monitoring part includes the following sections.

- Performance monitoring section
- Monitoring object section
- Monitoring instance section
- Counter section

(2-1) Performance monitoring section [GROUP_0]

The performance monitoring section is a section that includes the monitoring object section, monitoring instance section and counter section.

The section between the following start tag and end tag is the performance monitoring section.

Start tag: [GROUP_0]

End tag: [END_GROUP_0]

(2-2) Monitoring object section [GROUP_1]

The monitoring object section is a section included in the performance monitoring section.

The monitoring instance section includes the counter section.

The section between the following start tag and end tag is the monitoring object section.

Start tag: [GROUP_1]

End tag: [END_GROUP_1]

Describe the details of each item in the monitoring object section as shown in the table below.

Item name	Details	Default	Required item for importing
APPID	Specify the monitoring application management ID by using a numeric value. 1 : Oracle 3 : SQLServer 11 : SAP	-	Required
OBJECTNAME	Specify the object name by using up to 128 characters. The details are described later.	-	Required
SERVICEID	Specify "41".	-	Required

■ A value specified for OBJECTNAME

The object name is described in the following format:

<Application name> (<Instance name>)

Specify "Oracle" (when using Oracle), "MSSQL" (when using SQLServer) or "SAP" (when using SAP)　for <Application name>.

Specify the same character string as <Instance name> specified for USERCONFIGURATION in the "Application instance section" for <Instance name>.

Note that a one-byte space is inserted between <Application name> and <Instance name>, and one-byte parentheses are used.

Example: To specify "orcl" that was specified in example 1 for Oracle in "Application instance section"

Oracle (orcl)

(2-3) Monitoring instance section [GROUP_2]

The monitoring instance section is a section included in the monitoring object section of an object that has a monitoring instance. The monitoring instance section includes the counter section.

The section between the following start tag and end tag is the monitoring instance section.

Start tag: [GROUP_2]
End tag: [END_GROUP_2]
The instance name is described in the monitoring instance section in the following format:
INSTANCENAME=<Instance name>
The instance name is a required item and is described by using up to 128 characters.

(2-4) Counter section [COUNTER]
The counter section is a section included in the instance section for an object that has the monitoring instance, and is included in the monitoring object section for an object that does not have the monitoring instance.
The section between the following start tag and end tag is the counter section.
Start tag: [COUNTER]
End tag: [END_COUNTER]
Describe the details of each item in the counter section as shown in the table below.

Item name	Details	Default	Required item for importing
NATIVEID	The counter ID is described in 8-digit hexadecimal. - The counter ID is output during export to restore monitoring history information when definitions are deleted by mistake, etc. When editing the export file and using it as an import file, leave the exported ID as is, or delete this key. When creating a new import file definition, do not specify this key.	-	Not required
COUNTERNAME	Describe the counter name by using up to 128 characters.	-	Required
COLOR	Describe the graph line color in RGB 8-digit hexadecimal. Example) Red: 000000ff Blue: 00ff0000 Green: 0000ff00	00000000	Optional
WIDTH	Specify the graph line width of graph. 1: Narrow 2: Medium 3: Wide	1	Optional
SCALE	Specify the graph scale. -8: 0.00000001 times 0: 1 times -7: 0.0000001 times 1: 10 times -6: 0.000001 times 2: 100 times -5: 0.00001 times 3: 1000 times -4: 0.0001 times 4: 10000 times -3: 0.001 times 5: 100000 times -2: 0.01 times 6: 1000000 times -1: 0.1 times 7: 10000000 times	0	Optional
LOG	Specify whether or not to save the log to a file. 0: Do not save 1: Save	0	Optional
MONITORTYPE	Specify the type of threshold judgment. 0: Sequential 1: Continuous 2: Average	0	Optional
COUNT	Specify the judgment count when the type of threshold judgment is "Continuous" or "Average" in the range from 2 to 16 by using an integer value. Do not specify this item when the type of threshold judgment is "Sequential".	2	Optional

Item name	Details	Default	Required item for importing
UPPERERROR	Specify the upper anomalous threshold in the following range: -9999999999999 to 999999999999999 Note that this item is output to 18 decimal places during export. (*1)	(No threshold monitoring)	Optional
UPPERWARNING	Specify the upper warning threshold in the following range: -9999999999999 to 999999999999999 Note that this item is output to 18 decimal places during export. (*1)	(No threshold monitoring)	Optional
LOWERWARNING	Specify the lower warning threshold in the following range: -9999999999999 to 999999999999999 Note that this item is output to 18 decimal places during export. (*1)	(No threshold monitoring)	Optional
LOWERERROR	Specify the lower anomalous threshold in the following range: -9999999999999 to 999999999999999 Note that this item is output to 18 decimal places during export. (*1)	(No threshold monitoring)	Optional

(*1) To specify a threshold for two or more from UPPERERROR, UPPERWARNING, LOWERWARNING and LOWERERROR, the magnitude relation of the values must be UPPERERROR > UPPERWARNING > LOWERWARNING > LOWERERROR.

(3) User definition part

The user definition part includes the following sections.

- User definition section
- Application definition section
- Counter section

(3-1) User definition section [USERSQL_0]

The user definition section is a section that includes the application definition section and user definition counter section.
The section between the following start tag and end tag is the user definition section.
Start tag: [USERSQL_0]
End tag: [END_USERSQL_0]

(3-2) Application definition section [APP]

The application definition section is a section included in the user definition section.
This section includes the user definition counter section.
The section between the following start tag and end tag is the application definition section.
Start tag: [APP]
End tag: [END_APP]
The monitoring application is described in the application definition section in the following format.
APPID=<Management ID>
Specify 1 for <Management ID> when the monitoring target is Oracle, specify 3 when the monitoring target is SQLServer and specify 11 when the monitoring target is SAP.

(3-3) User definition counter section [COUNTER]

The user definition counter section is a section included in the application definition section.
The section between the following start tag and end tag is the user definition counter section.
Start tag: [COUNTER]
End tag: [END_COUNTER]
Describe the details of each item in the user definition counter section as shown in the table below.

● When the monitoring application is Oracle or SQLServer

Item name	Details	Default	Required item for importing
OBJECTNAME	Specify the same character string as the content specified for OBJECTNAME in "Monitoring object section".	-	Required
INSTANCENAME	Specify the instance name.	-	Required

	Specify UserSQL when using Oracle. Specify UsersSQL when using SQLServer.		
COUNTERNAME	Specify the counter name by using a character string up to 128 characters.	-	Required
SQLTEXT	Specify SQL statements to be executed by using up to 4,095 characters including line feeds. Specify "___NL___" to insert a line feed in the text.	-	Required
DESCRIPTION	Specify the counter description by using up to 1,023 characters. Specify "___NL___" to insert a line feed in the text.	-	Required

● When the monitoring application is SAP

Item name	Details	Default	Required item for importing
OBJECTNAME	Specify the same string as specified for OBJECTNAME in "Monitoring object section".	-	Required
INSTANCENAME	Specify the instance name by using up to 128 characters.	-	Required
COUNTERNAME	- CCMS alert monitoring Specify APPNAVI_INTERNAL_COUNTER1. - Performance monitoring Specify the counter name by using a character string up to 128 characters.	-	Required
SQLTEXT	- CCMS alert monitoring Specify the name of the CCMS monitoring set. $MonitorSet$__SEP__$Monitor$__SEP__ APPNAVI_INTERNAL_COUNTER1 - Performance monitoring Specify the name of the CCMS monitoring set and monitored tree. $MonitorSet$__SEP__$Monitor$__SEP__$Monitored Tree$__SEP__$Difference$ Specify 1 to use a statistical value within the monitoring interval or 0 to use an obtained value for difference.	-	Required
DESCRIPTION	Specify the counter description by using up to 1,023 characters. Specify "___NL___" to insert a line feed in the text.	-	Required

13. Service port monitoring

This chapter explains the description details of the import and export files for service port monitoring.

| Service name	Service port monitoring
Service ID	217
Import file name	Any name (up to 17 characters)
Export file name	PortMonitor.txt

13.1 Overview

An import file example of service port monitoring is shown below.

```
FILE:Unified Management Framework
FUNCTION:PortMonitor
VERSION:1.0
--------------------------------------------
[GROUP_0]
    [PORTMONITOR]
        DISPLAYNAME= Port monitoring name TCP
        PORTNO=8080
        PROTOCOL=TCP
        NORMALSTATUS=OPEN
        INTERVAL=30
        CONNECTTIMEOUT=3
        ADDRESS=localhost
    [END_PORTMONITOR]
    [PORTMONITOR]
        DISPLAYNAME= Port monitoring name UDP
        PORTNO=8081
        PROTOCOL=UDP
        NORMALSTATUS=CLOSE
        RETRYCOUNT=1
    [END_PORTMONITOR]
    [PORTMONITOR]
      …
    [END_PORTMONITOR]
    …
[END_GROUP_0]
```

Header part

Definition part
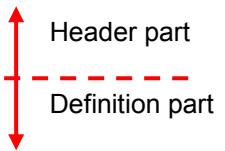
13.2 Details

13.2.1 Header part

As the character strings in the header part are fixed, describe the following information as is.

FILE:Unified Management Framework	…Product name (fixed)
FUNCTION:PortMonitor	…Function name (fixed)
VERSION:1.0	…File version (fixed)

13.2.2 Definition part
The definition part of the service port monitoring function is composed of the following two sections.

- ✓ Service port monitoring section
- ✓ Monitoring setting section

(1) Service port monitoring section [GROUP_0]
Root section.
The service port monitoring section is a section that includes the monitoring setting section.
The section between the following start tag and end tag is the service port monitoring section.

    Start tag: [GROUP_0]
    End tag: [END_GROUP_0]

(2) Monitoring setting section [PORTMONITOR]
The monitoring setting section is a section included in the service port monitoring section.
Multiple monitoring setting sections can be entered.
The section between the following start tag and end tag is the monitoring setting section.

    Start tag: [PORTMONITOR]
    End tag: [END_PORTMONITOR]
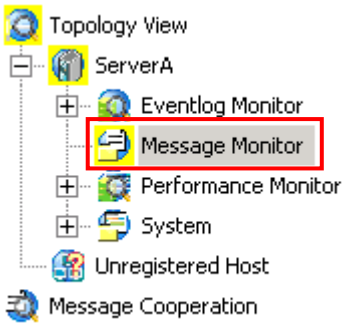
Specify the monitoring definition of service port monitoring in [PORTMONITORING].

Key	Value
DISPLAYNAME	Display name [Required] 1 to 64 characters
PORTNO	Port number [Required] 1 to 65535
PROTOCOL	Protocol Specify either TCP or UDP. ・ If PROTOCOL is omitted, TCP is assumed.
NORMALSTATUS	Normal port state Specify either OPEN or CLOSE. ・ If NORMALSTATUS is omitted, OPEN is assumed.
INTERVAL	Monitoring interval Normal host: 10 to 3600 seconds Remote host: 60 to 3600 seconds ・ If a value in the range that can be specified for the normal host but cannot be specified for the remote host (10 to 59 seconds) is specified during import to a remote host, the minimum value that can be specified for the remote host is assumed. ・ If INTERVAL is omitted, the set option value is used as default specification.
CONNECTTIMEOUT	Connection timeout 1 to 60 seconds ・ If CONNECTTIMEOUT is omitted, the set option value is used as default specification.
RETRYCOUNT	Number of retries 0 to 10 times ・ Enabled only when the protocol is UDP. ・ If RETRYCOUNT is omitted, the set option value is used as default specification.
ADDRESS	Monitoring address

	1 to 39 characters ・ Specify an IPv4 address, an IPv6 address or "localhost". ・ If ADDRESS is omitted, the default specification ("localhost") is assumed. ・ When "localhost" is specified for a remote host, the value is converted into the IP address of the remote host registered in the topology view.

14. Message monitoring

This chapter explains the description details of the import and export files for message monitoring.

Service name	Message monitoring
Service ID	49
Import file name	Any name (up to 17 characters)
Export file name	MessageView.txt

14.1 Overview

An import file example of message monitoring is shown below.

```
FILE:Unified Management Framework
FUNCTION:MessageView
VERSION:5.3.0.0

[MESSAGE]
    MESSAGENAME = Condition 1
    CATEGORY = Unified Management Framework
    SEVERITY = 264
    DISPLAYPOS = 1
    OVERRIDING_SEVERITY = 257
    APPLICATION = Application 1
    OBJECT = Object 1
    MESSAGEID = Message ID 1
    MESSAGETEXT = Message text 1
    SELPOS = (1, "Value 1", =)
    SELPOS != (10, "Value 2", <)
    SELKEY = ("Key 1", "Value 3", =)
    SELKEY != ("Key 2", "Value 4", <)
    [HELP]
        APPLICATION = HelpApplication.exe
        OPTION = Option
        DIRECTORY = C:\Temp
    [RELATION1]
        RELATION = 1
        BUTTON_TEXT = Related information 1
        APPLICATION = RelAppication1.exe
        OPTION = Option1
        DIRECTORY = C:\Temp
    [RELATION2]
        RELATION = 0

[MESSAGE]
    …
```

Header part

Definition part

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14.2 Details

14.2.1 Header part

As the character strings in the header part are fixed, describe the following information as is.
Product name (fixed)
Function name (fixed)
File version (fixed)

FILE:Unified Management Framework	…Product name (fixed)
FUNCTION:MessageView	…Function name (fixed)
VERSION:5.3.0.0	…File version (fixed)

14.2.2 Definition part

The definition part of the message monitoring function is composed of the following three sections.

- ✓ Message monitoring section
- ✓ Help application section
- ✓ Related information section

(1) Message monitoring section [MESSAGE]

Root section.
The message monitoring section is a section that includes the message filter definition, help application section, and related information section.
The following start tag is the message monitoring section. There is no end tag.

Start tag: [MESSAGE]

Enter the filter definition for message monitoring in [MESSAGE].

MESSAGENAME	[Description] on the [Filter Setting] tab [Required] 1 to 256 characters ・ A replacement character string can be specified.
CATEGORY CATEGORY!	[Category] on the [Filter Setting] tab Up to 32 characters ・ Enter CATEGORY when [Not] is OFF, and CATEGORY! when [Not] is ON. Only one of CATEGORY and CATEGORY! can be entered. ・ If CATEGORY and CATEGORY! are omitted, a null character is assumed.
SEVERITY SEVERITY!	[Severity] on the [Filter Setting] tab Specify the ID of severity. (See "Severity List".) ・ Enter SEVERITY when [Not] is OFF, and SEVERITY! when [Not] is ON. Only one of SEVERITY and SEVERITY! can be entered. ・ If SEVERITY and SEVERITY! are omitted, a null character is assumed.
DISPLAYPOS	[Display Start Position] on the [Display Setting] tab 1 to 1024 ・ If DISPLAYPOS is omitted, 1 is assumed.
OVERRIDING_SEVERITY	[Overwrite Severity] on the [Display Setting] tab Specify the ID of severity. (See "Severity List.") ・ If OVERRIDING_SEVERITY is omitted, no value is specified.
APPLICATION APPLICATION!	[Application] on the [Filter Setting] tab Up to 128 characters in the regular expression format ・ Enter APPLICATION when [Not] is OFF, and APPLICATION! when [Not] is ON. Only one of APPLICATION and APPLICATION! can be entered. ・ If APPLICATION and APPLICATION! are omitted, a null character

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	is assumed. ・ - Double quotation marks at both edges are deleted.
OBJECT OBJECT!	[Object] on the [Filter Setting] tab Up to 128 characters in the regular expression format ・ - Enter OBJECT when [Not] is OFF, and OBJECT! when [Not] is ON. Only one of OBJECT and OBJECT! can be entered. ・ - If OBJECT and OBJECT! are omitted, a null character is assumed.
MESSAGEID MESSAGEID!	[Message ID] on the [Filter Setting] tab Up to 128 characters in the regular expression format ・ Enter MESSAGEID when [Not] is OFF, and MESSAGEID! when [Not] is ON. Only one of MESSAGEID and MESSAGEID! can be entered. ・ - If MESSAGEID and MESSAGEID! are omitted, a null character is assumed.
MESSAGETEXT MESSAGETEXT!	[Message text] on the [Filter Setting] tab Up to 1024 characters in the regular expression format ・ Enter MESSAGETEXT when [Not] is OFF, and MESSAGETEXT! when [Not] is ON. Only one of MESSAGETEXT and MESSAGETEXT! can be entered. ・ - If MESSAGETEXT and MESSAGETEXT! are omitted, a null character is assumed.
SELPOS SELPOS!	[Select by Position] on the [Filter Setting] tab ・ Enter SELPOS when [Not] is OFF, and SELPOS! when [Not] is ON. Up to 8 items can be specified in total for both SELPOS and SELPOS!. ・ Value is specified in the format of (<Position>, "<Comparison value>", <Condition>). <Position>: 1 to 1,024 <Comparison value>: 1 to 64 characters <Condition>: =, <>, >=, >, <= or < ・ If SELPOS and SELPOS! are omitted, no value is specified. ・ - A double quotation mark (") cannot be used in <Comparison value>. Space characters before and after the value are not trimmed.
	[Select by Key] on the [Filter Setting] tab ・ Enter SELKEY when [Not] is OFF, and SELKEY! when [Not] is ON. Up to 8 items can be specified in total for both SELKEY and SELKEY!. ・ Value is specified in the format of (<Key value>, "<Comparison value>", <Condition>). <Key value>: 1 to 64 characters <Comparison value>: 1 to 128 characters <Condition>: =, <>, >=, >, <= or < ・ If SELKEY and SELKEY! are omitted, no value is specified. ・ A double quotation mark (") cannot be used in <Key value>. Space characters before and after the value are not trimmed. ・ A double quotation mark (") cannot be used in <Comparison value>. ・ When the comparison type is "=," <Comparison value> is in the regular expression format. When the comparison type is not "=," <Comparison value> is a normal character string. ・ - [Key value] and [Comparison value] used for [Key specification] must be enclosed in separators in the message text. Recognizable separators are one-byte space, (,), [,], {, }, < and >. A character

	string containing one or more two-byte spaces cannot be specified for the key value. Note that spaces between the key, "=" and the value are ignored.

(2) Help application section [HELP]

The help application section is a section included in the message monitoring section.
The following start tag is the help application section. There is no end tag.

Start tag:　　　[HELP]

Place the start tag in [MESSAGE] and the help application definition for message monitoring in [HELP].

Key	Value
APPLICATION	[Application] on the [Display Setting] tab　[Required] 1 to 256 characters ・　Required when the help application section is specified. ・　Double quotation marks at both edges are deleted.
DIRECTORY	[Work Directory] on the [Display Setting] tab Up to 256 characters ・　If DIRECTORY is omitted, a null character is assumed. ・　Double quotation marks at both edges are deleted.
OPTION	[Option] on the [Display Setting] tab Up to 128 characters ・　If OPTION is omitted, a null character is assumed. ・　Double quotation marks at both edges are deleted. ・　A replacement character string can be specified.

(3) Related information section [RELATION1, RELATION2]

The related information section is a section included in the message monitoring section.
Related information 1 and Related information 2 can be defined.
The following start tag is the related information section. There is no end tag.

Start tag:　　　[RELATION1]、[RELATION2]

Place the start tag in [MESSAGE] and the related information definition for message monitoring in [RELATION1] and [RELATION2].

Key	Value
RELATION	[Related Information] on the [Action Setting] tab [Required] 0: Not defined. 1: Defined. ・　Required when the related information section is specified.
BUTTON_TEXT	[Display Name] on the [Action Setting] tab 1 to 16 characters ・　Required when RELATION=1. ・　Double quotation marks at both edges are deleted.
APPLICATION	[Application] on the [Action Setting] tab 1 to 256 characters ・　Required when RELATION=1. ・　Double quotation marks at both edges are deleted.
DIRECTORY	[Work Directory] on the [Action Setting] tab Up to 256 characters ・　If DIRECTORY is omitted, a null character is assumed. ・　Double quotation marks at both edges are deleted.
OPTION	[Option] on the [Action Setting] tab Up to 1024 characters ・　If OPTION is omitted, a null character is assumed. ・　Double quotation marks at both edges are deleted. ・　A replacement character string can be specified.

(4) Replacement character string
The following replacement character strings are provided.

Replacement character string	Description	Remarks
$SEVERITY$	Replaces to the message severity.	
$GENERATEDDATE$	Replaces to the message generation date/time.	
$GENERATEDTIME$	Replaces to the message generation time.	
$RECEIVEDATE$	Replaces to the message reception date.	
$RECEIVETIME$	Replaces to the message reception time.	
$NODE$	Replaces to the node name of a message.	
$APPLICATION$	Replaces to the application name of a message.	
$OBJECT$	Replaces to the object name of a message.	
$MESSAGEID$	Replaces to the message ID.	
$MESSAGETEXT$	Replaces to the message text. Double quotation marks (") and line feed characters in message text are replaced with single quotation marks (') and spaces, respectively, before replacement.	
$MARK$	Replaces to the message mark.	This can be specified only with the following options: Help application Related information 1 Related information 2
$REPEXP("<Start key value>","<End key value>")	Specify the text to be replaced with the message text. Specifying the start key value and the end key value replaces the character string with the contents from the next to the start key value up to in front of the end key. Start key value: Specify the value immediately before the character string to be replaced in the regular expression format. End key value: Specify the value immediately after the character string to be replaced in the regular expression format. Enclose the start key value and the end key value in double quotation marks ("). If the message does not contain the matching character string, the target is replaced with ("<Start key value>","<End key value>"). Double quotation marks (") and line feed characters in message text are replaced with single quotation marks (') and spaces, respectively, before replacement. Example: $REPEXP("\(","\)")	This can be specified only with the following options: Help application Related information 1 Related information 2
$REPPOS(<Position>,<Character string length>)	Specify the position of the text to be replaced with the message text. Position: Specify the number of characters to indicate the replacement start position in the message text. Specify a value from 0 to 1023. Character string length: Specify the length of the character string to be replaced. Specify a value from 1 to 1024. Specify a value so that the total with the value specified as a position does not exceed 1024. If the specified range does not contain character strings, the target is replaced with a null	This can be specified only with the following options: Help application Related information 1 Related information 2

	character. If a character other than a numerical value is specified for the position, that character is treated as "0". If a character other than a numerical value is specified for the character string length, the target is replaced with a null character. Double quotation marks (") and line feed characters in message text are replaced with single quotation marks (') and spaces, respectively, before replacement. Example: $REPPOS(5,8)	
$REPKEY("<Key value>")	Replace the target with the value on the right-hand side (character string after "=") of the character string that matches the key value in the message text. Key value: Specify the key in the message text. The key value shall be enclosed with the double quotation marks. If the message text does not include the character string that matches the specified key value, the target is replaced with a null character. "=" must be inserted between the character string that matches the key value in the message text and the replacement target. The character string to be replaced in the message text must be enclosed in double quotation marks ("). Or, a closing parenthesis ")" or one-byte space is required immediately after the character string to be replaced. Note that spaces between the key, "=" and the value are ignored. Double quotation marks (") and line feed characters in message text are replaced with single quotation marks (') and spaces, respectively, before replacement. Example: $REPKEY("ErrorNumber") Message text: (ErrorNumber=1)	This can be specified only with the following options: Help application Related information 1 Related information 2

15. Reporting function

This chapter explains the description details of the import and export files for the reporting function.

Import file name	Described in each monitoring function file.
Export file name	To be described in each monitoring function file.

15.1 Overview

The reporting function is described in the definition part of each monitoring function and composed of the following two parts:

■ Report specification part
In each monitoring function definition, describe which reporting definition the monitoring target uses.

■ Reporting definition part
Describe the reporting definition.

An import file example of the reporting function (when specifying in the topology view) is shown below.

```
...

[HOST]
        HOSTNAME=Agent
        ErrorReport=0
        [REPORT]
                PatlitePolicy=1
                MailPolicy=1                    Report information
                ActionPolicy=1
        [END_REPORT]
[END_HOST]                                                              Report specification part
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                                        Reporting definition part
[REPORT_DESCRIPTION]
        [PATLITE_POLICY_1]
                PolicyName= Report to an operator of the server
                DestinationID=1
                SEVERITY269=012
        [END_PATLITE_POLICY_1]
        [PATLITE_DESTINATION_1]
                DestinationName=Shared server
                HostName=PatliteServer
                Type=1
                LoginName=admin
        [END_PATLITE_DESTINATION_1]
        [MAIL_POLICY_1]
                PolicyName= Report to a system administrator
                MailServerID=1
                SendTo=admin_system@local.nec.com
                SendCc=member_system@local.nec.com
                EnCode=65001
                Subject=A system failure occurred.
                MailText=This is the mail sent automatically.<CR>Message:
$MESSAGETEXT$
        [END_MAIL_POLICY_1]
        [MAIL_SERVER_1]
                MailServerName=Mail server for internal LAN
                HostName=mail.sysmgr.nec.com
                Port=25
                MailFrom=admin_sysmgr@nec.com
                Authentication=1
                LoginName=Administrator
                Password=QWRtaW5pc3RyYXRvcg==
        [END_MAIL_SERVER_1]
        [ACTION_POLICY_1]
                PolicyName=Batch to display "Now collecting information"
```

```
                    Command="C:\Program Files\NEC\GetInfoD.bat"
                    WorkDirectory=
                    Option=-u administrator
           [END_ACTION_POLICY_1]
[END_REPORT_DESCRIPTION]
```

15.2 Details

15.2.1 Report specification part
This part includes the [REPORT] section. The part between the following start tag and end tag is the report specification part.
Start tag: [REPORT]
End tag: [END_REPORT]
Describe this part in each monitoring function definition and, in this part, describe which reporting definition is to be used. For the position in which to describe the reporting definition to be used, see the description of each monitoring function. If this part is omitted, the default reporting setting will be deleted.

Key	Value
PatlitePolicy	Specifies the policy for patlite reporting to be used. Specify "X" of [PATLITE_POLICY_X] described in the reporting definition section. If the specified X cannot be found, reporting is not set.
MailPolicy	Specifies the policy for email reporting to be used. Specify "X" of [MAIL_POLICY_X] described in the reporting definition section. If the specified X cannot be found, reporting is not set.
ActionPolicy	Specifies the policy for action reporting to be used. Specify "X" of [ACTION_POLICY_X] described in the reporting definition section. If the specified X cannot be found, reporting is not set.

15.2.2 Reporting definition part
The reporting definition part is composed of the following six sections.
- Reporting definition section
- Patlite reporting policy section
- Patlite reporting destination section
- Email reporting policy section
- Email reporting destination section
- Action reporting policy section

(1) Reporting definition section [REPORT_DESCRIPTION]
The reporting definition section is a section that includes the patlite reporting policy section, patlite reporting destination section, email reporting policy section, email reporting destination section, and action reporting policy section.
The section between the following start tag and end tag is the reporting definition section.
Start tag: [REPORT_DESCRIPTION]
End tag: [END_REPORT_DESCRIPTION]
This is described in the root section, but does not have any key.

(2) Patlite reporting policy section [PATLITE_POLICY_X]
The patlite reporting policy section is a section included in the reporting definition section.
The section between the following start tag and end tag is the patlite reporting policy section.
Start tag: [PATLITE_POLICY_X]
End tag: [END_PATLITE_POLICY_X]
Describe this section in the [REPORT_DESCRIPTION] section and, in this section, describe the patlite policy definition. For "X" in the tag, describe the serial number of the patlite policy in ascending order from 1.

Key	Value
PolicyName	Policy name (up to 64 characters) [Required]
DestinationID	Patlite reporting destination to be used [Required] Specify "X" of the [PATLITE_DESTINATION_X] tag specified in the patlite reporting destination section.

SEVERITY[XXX]	Reporting level (up to 16 characters)
	For [XXX] of the key, specify the severity ID. (See List of severity IDs.)
	If this key is omitted, reporting will not be performed.

(3) Patlite reporting destination section [PATLITE_DESTINATION_X]
The patlite reporting destination section is a section included in the reporting definition section.
The section between the following start tag and end tag is the reporting section.
Start tag: [PATLITE_DESTINATION_X]
End tag: [END_PATLITE_DESTINATION_X]
Describe this section in the [REPORT_DESCRIPTION_X] section and, in this section, describe the patlite policy reporting destination definition. For "X" in the tag, describe the serial number of the patlite reporting destination in ascending order from 1.

Key	Value
DestinationName	Destination name (up to 64 characters) [Required]
HostName	Host name (up to 64 characters) [Required]
Type	Patlite product type [Required]
	0: Serial connection type
	1: LAN connection type
Port	Port number used for patlitereporting (1024 to 32767)
	● Required when Type=0.
	● Not required when Type=1.
LoginName	Login name of the user registered in the patrol lamp (up to 15 characters)
	● Not required when Type=0.
	● Required when Type=1.

(4) Email reporting policy section
The email reporting policy section is a section included in the reporting definition section.
The section between the following start tag and end tag is the email reporting policy section.
Start tag: [MAIL_POLICY_X]
End tag: [END_MAIL_POLICY_X]
Describe this section in the [REPORT_DESCRIPTION] section and, in this section, describe the email reporting policy definition. For "X" in the tag, describe the serial number of the email reporting policy in ascending order from 1.

Key	Value
PolicyName	Policy name (up to 64 characters) [Required]
MailServerID	Email reporting destination to be used [Required]
	Specify "X" of the [MAIL_SERVER_X] tag specified in the email reporting destination section.
SendTo	Email destination (To) (up to 256 characters)
	To specify multiple email destinations, specify this key multiple times. (The length of all key specifications must be within 756 characters.)
	Specify at least one of SendTo, SendCc, and SendBcc.
SendCc	Email destination (Cc) (up to 256 characters)
	To specify multiple email destinations, specify this key multiple times. (The length of all key specificationss must be within 756 characters.)
	Specify at least one of SendTo, SendCc, and SendBcc.
SendBcc	Email destination (Bcc) (up to 256 characters)
	To specify multiple email destinations, specify this key multiple times. (The length of all key specificationss must be within 756 characters.)
	Specify at least one of SendTo, SendCc, and SendBcc.
EnCode	Character code to be used for encoding [Required]
	50220: Japanese (JIS)
	932: Japanese (Shift-JIS)
	65001: Unicode (UTF-8)

Subject	Email subject (up to 128 characters) The following replacement character strings can be used. $SEVERITY$: Replaced with the message severity $GENERATEDDATE$: Replaced with the message generation date $GENERATEDTIME$: Replaced with the message generation time $NODE$: Replaced with the node name of the message $APPLICATION$: Replaced with the application name of the message $OBJECT$: Replaced with the object name of the message $MESSAGEID$: Replaced with the message ID $MESSAGETEXT$: Replaced with the message text
MailText	Email text (up to 2048 characters) For a line feed, specify <CR>. For a tab, specify <TAB>. The replacement character strings that are available for the subject key can be specified.

(5) Email reporting destination section [MAIL_SERVER_X]
The email reporting destination section is a section included in the reporting definition section.
The section between the following start tag and end tag is the report information section.
Start tag: [MAIL_SERVER_X]
End tag: [END_MAIL_SERVER_X]
Describe this section in the [REPORT_DESCRIPTION_X] section and, in this section, describe the email reporting policy definition. For "X" in the tag, describe the serial number of the email reporting destination in ascending order from 1.

Key	Value
MailServerName	Configured mail server name (up to 64 characters) [Required]
HostName	Host name of the mail server (up to 64 characters) [Required]
Port	Port number of the mail server (1 to 32767) [Required]
MailFrom	Source mail address (up to 128 characters) [Required]
Authentication	Enables or disables [Use SMTP Authentication]. 0: OFF, disabled * Default 1: ON, enabled (CRAM-MD5) 2: ON, enabled (PLAIN)
LoginName	Login name to be used for SMTP authentication (up to 128 characters) ● Not required when Authentication=0. ● Required when Authentication=1 or 2.
Password	Password to be used for SMTP authentication This can be specified only when the Password key of the export file is to be used as is. ● Not required when Authentication=0. ● Be sure to specify Password or PasswordText when Authentication=1 or 2.
PasswordText	Password to be used for SMTP authentication (up to 128 characters) The following characters and one-byte space can be used. !"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~ ● Not required when Authentication=0. ● Be sure to specify Password or PasswordText when Authentication=1 or 2.

(6) Action reporting policy section [ACTION_POLICY_X]
The action reporting policy section is a section included in the reporting definition section.
The section between the following start tag and end tag is the action reporting policy section.
Start tag: [ACTION_POLICY_X]
End tag: [END_ACTION_POLICY_X]
Describe this section in the [REPORT_DESCRIPTION] section and, in this section, describe the action reporting policy definition. For "X" in the tag, describe the serial number of the action reporting policy in ascending order from 1.

Key	Value
PolicyName	Policy name (up to 64 characters) [Required]
Command	Command (up to 256 characters) [Required] An environment variable can be used for the path name. Even if the path name includes a space, it is unnecessary to enclose the path name in double quotation marks ("").

WorkDirectory	Working directory (256 characters) An environment variable can be used for the path name. Even if the path name includes a space, it is unnecessary to enclose the path name in double quotation marks ("").
Option	Command options (up to 2048 characters) An environment variable and the following replacement character strings can be specified. $SEVERITY$: Replaced with the message severity $GENERATEDDATE$: Replaced with the message generation date $GENERATEDTIME$: Replaced with the message generation time $NODE$: Replaced with the node name of the message $APPLICATION$: Replaced with the application name of the message $OBJECT$: Replaced with the object name of the message $MESSAGEID$: Replaced with the message ID $MESSAGETEXT$: Replaced with the message text

For the notes on running the command, see the manual (Help).

16. Recovery function

This chapter explains the description details of the import and export files for the recovery function.

Import file name	Described in each monitoring function file.
Export file name	To be described in each monitoring function file.

16.1 Overview

The recovery function is described in the definition part of message monitoring, and composed of the following two parts:

■ Recovery specification part
In each monitoring function definition, describe which recovery definition the monitoring target uses.

■ Recovery definition part
Describe the recovery definition.

An import file example of the recovery function (when specifying in message monitoring) is shown below.

```
...

[HOST]
        HOSTNAME=Agent
        ErrorReport=0
        [RECOVERY]
                Description=Recovery definition
                HistoricalComment=1          }  Recovery information
                Recovery=1
        [END_ RECOVERY]
[END_HOST]                                              ↑ Recovery specification part
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
[RECOVERY_DESCRIPTION]                                  ↓ Recovery definition part
    [RECOVERY_1]
        Description=Recovery for database restoration
        RecoveryType=1
        [ACTION]
            Description=Batch for recovery
            TargetHost=ServerA
            Command=C:\Program Files\NEC\database.bat
            WorkDirectory=C:\Program Files\NEC
            Option=-u administrator
        [END_ACTION]
    [END_RECOVERY_1]
[END_RECOVERY_DESCRIPTION]
```

16.2 Details

16.2.1 Recovery specification part

This part includes the [RECOVERY] section. The part between the following start tag and end tag is the recovery specification part.
Start tag: [RECOVERY]
End tag: [END_RECOVERY]
Describe this part in each monitoring function definition and, in this part, describe which recovery definition is to be used. For the position in which to describe the recovery definition to be used, see the description of each monitoring function. If this section is omitted, the default recovery setting will be deleted.

Key	Value
Description	Description of the recovery to be used (up to 512 characters) [Required]
HistoricalComment	History of recovery measures (up to 1024 characters) For a line feed, specify <CR>. For a tab, specify <TAB>.
Recovery	Specifies the policy for recovery to be used. Specify "X" of [RECOVERY_X] described in the recovery definition part. If the specified X cannot be found, recovery is not set. To specify multiple policies, specify this key multiple times.

16.2.2 Recovery definition part
The recovery definition part is composed of the following three sections.
- Recovery definition section
- Recovery policy section
- Action section

(1) Recovery definition section [RECOVERY_DESCRIPTION]
The recovery definition section is a section that includes the recovery policy section and command section.
The section between the following start tag and end tag is the recovery definition section.
Start tag: [RECOVERY_DESCRIPTION]
End tag: [END_RECOVERY_DESCRIPTION]
This is described in the root section, but does not have any key.

(2) Recovery policy section [RECOVERY_X]
The recovery policy section is a section included in the recovery definition section.
The section between the following start tag and end tag is the recovery policy section.
Start tag: [RECOVERY_X]
End tag: [END_RECOVERY_X]
Describe this section in the [RECOVERY_DESCRIPTION] section and, in this section, describe the recovery policy definition. For "X" in the tag, describe the serial number of the recovery policy in ascending order from 1.

Key	Value
Description	Policy name (up to 256 characters) [Required]
RecoveryType	Recovery execution type [Required] 0: Automatic 1: Manual

(3) Action section [ACTION]
The action section is a section included in the recovery policy section.
The section between the following start tag and end tag is the action section.
Start tag: [ACTION]
End tag: [END_ACTION]
Describe this section in the [RECOVERY_DESCRIPTION] section and, in this section, describe the command definition. This section can be described multiple times. Commands are executed in order of description.

Key	Value
Description	Description of the action (up to 256 characters) [Required]
TargetHost	Name of the agent executing the action (up to 256 characters) [Required] When $NODE$ is described, this is replaced with the name of the node that issued the message. When $MANAGER$ is described, recovery is executed on the manager.
Command	Command (up to 256 characters) [Required] An environment variable can be used for the path name. Even if the path name includes a space, it is unnecessary to enclose the path name in double quotation marks ("").
WorkDirectory	Working directory (256 characters) An environment variable can be used for the path name Even if the path name includes a space, it is unnecessary to enclose the path name in double quotation marks ("").
Option	Command options (up to 256 characters) An environment variable can be specified.

For the notes on running the command, see the manual (Help).

17. List of severity IDs

This chapter describes a list of the displayed severity names and the corresponding internal names and severity IDs.

[System severities]

Displayed severity name (default)	internal severity name	Severity ID
STOP	SEV_STOP	256
FATAL	SEV_FATAL	257
CRITICAL	SEV_CRITICAL	258
MAJOR	SEV_MAJOR	259
MINOR	SEV_MINOR	260
WARNING	SEV_WARNING	261
UNKNOWN	SEV_UNKNOWN	262
NOMESSAGE	SEV_NOMESSAGE	263
NORMAL	SEV_NORMAL	264
PROCESSSTOP	SEV_PROCESSSTOP	265
SERVICESTOP	SEV_SERVICESTOP	266
PERFUPERROR	SEV_PERFUPERROR	267
PERFLOWERROR	SEV_PERFLOWERROR	268
HOSTEMPTY	SEV_HOSTEMPTY	269
PERFUPWARNING	SEV_PERFUPWARNING	270
PERFLOWWARNING	SEV_PERFLOWWARNING	271
PROCESSUNKNOWN	SEV_PROCESSUNKNOWN	272
SERVICEUNKNOWN	SEV_SERVICEUNKNOWN	273
PERFUNKNOWN	SEV_PERFUNKNOWN	274
PROCESSRUN	SEV_PROCESSRUN	275
SERVICERUN	SEV_SERVICERUN	276
PERFNORMAL	SEV_PERFNORMAL	277
HOSTNORMAL	SEV_HOSTNORMAL	278
PROCESSUPERROR	SEV_PROCESSUPERROR	279
FORCEEND	SEV_FORCEEND	280
DELAY	SEV_DELAY	281
CONDSTOP	SEV_CONDSTOP	282
EXECUTING	SEV_EXECUTING	283
NOTEXEC	SEV_NOTEXEC	284
CONFIRMATION	SEV_CONFIRMATION	285
UNMANAGED	SEV_UNMANAGED	286

[User severities]

Internal severity name	Severity ID
USER1	512
...	...
USER32	543

* The severity ID of the user severity USERn (n=1, 2, ..., 32) is 511+n.