
MasterScope SystemManager G
BusinessCmd
Batch Registration of Monitoring Definitions
Operation Manual

Revision History

Edition	Chapter/Section	Description of Revision
1st edition	-	-
2nd edition	Throughout	All contents were reviewed.
3rd Edition	General	Description of help desk and ServiceManager linkage added
4th Edition	General	Description of BusinessCmd EXPORT added Cautions on IMPORT added in "3. Functional outline" Cautions added in "7. Cautions"
5th Edition	Chapter 4	Cautions added

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1. Preface

This document describes how to perform batch registration of business view monitoring definitions from the command line on the manager for MasterScope MISSION CRITICAL OPERATIONS Ver. 3.6.2 or later.

2. Supported operating systems

The supported operating systems are the same as for the manager of MasterScope MISSION CRITICAL OPERATIONS.

3. Functional outline

The business view provides functions to accumulate and manage only those messages that are essential for monitoring by applying filter conditions to the messages generated in the system.

The conventional method used to define monitoring definitions was to define categories and groups in the monitoring window, and then define conditions to store the messages in categories, and define the display method. With the batch definition function, it is possible to define categories and groups in the business view, define conditions to store messages in categories, and define the display method as a single process by importing a pre-created monitoring definition file (object file).

With this function, the filter condition definitions, group definitions, and definitions of filter-related information such as reports, recoveries, and help desk are imported or exported by using the command line on the manager.

Business view definitions are specified by using two definition files: a hierarchy definition file and a category definition file.

- The hierarchy definition file defines the hierarchy configuration of groups and categories in the business view. The category definition file applies definitions to each category defined in the hierarchy definition file.
- The category definition file defines filter conditions and information related to filters for each category that is defined in the hierarchy definition file.

[Notes]

- It is recommended to back up the monitoring definitions before importing them.
- When using the import function, schedules cannot be specified for a group or category. By executing the import function, all schedule settings for groups and categories in the business view tree will be deleted. Specify schedules in the monitoring window again after importing if required.
- The category definition file must be stored in the same directory as the hierarchy definition file.
- When importing, specify that existing definitions be deleted and replaced with the definitions to be imported. Note that the existing messages and map view information will be retained if the IDs (CATEGORYID, GROUPLD) of the existing definition and the definition to be imported are the same.
- When importing reports, recoveries, and help desk, the existing definitions are compared to the ones to be imported. If the definitions are the same, the existing definitions are used; if not, the imported definitions are added as new definitions. Note that the definitions of reports, recoveries, and help desk will not be deleted by importing. Delete the definitions of reports, recoveries, and help desk in the monitoring window.
- For import, option settings of the ServiceManager linkage function (e.g. connection with ServiceManager) and importance mapping definitions cannot be specified. Specify them from the console. For the setting method, refer to the following for help. [Register an Incident into ServiceManager]-[Set the Incident Registration Function]-[Set options for the incident registration function]/[Set the ServiceManager into which messages will be registered as incidents]/[Define a mapping for a severity]
- For export, if the hierarchy definition file and category definition file already exist in the path specified by the command parameter <OutPutFile Path>, they are overwritten.
- For export, map view information is not supported (not output).
- For export, any value set in the hidden tab items [Display Setting], [Recovery Setting], and [Option Setting] is not output if [Type : Delete] is specified in [Filter Setting].
- For export, filter-related report, recovery, and help desk definitions are not output unless the settings are enabled. (Example: For recovery, the recovery definition set in [Recovery Setting] is not output if [Recovery Setting] on the [Recovery Setting] tab of [Filter Setting] is not selected.)
- The order of groups or categories output during export may not match the order displayed on the monitoring screen. (They are sorted by name when displayed on the monitoring screen.)
- When export is performed immediately after import, the files used for import and files output during export do not necessarily match even if export is performed without changing any definition.
- If export fails, only some of the category definition files (category definition files that were successfully exported) are output. Specify the same folder and perform export after resolution (category definition files are overwritten).

3.1 Procedure for batch importing business view monitoring definitions

Perform batch importing of business view monitoring definitions as described below.

1. Create a hierarchy definition file and category definition file using a file editor, etc. Or export the currently specified business view definitions, edit any output hierarchy definition file and category definition file with an editor, and import them.

[Related items]

[Hierarchy definition file](#)

[Category definition file](#)

[BusinessCmd EXPORT](#)

2. Check the syntax of the hierarchy definition file and category definition file, and then convert these files to object files.

[Related items]

[BusinessCmd SU](#)

3. Import the object files converted using the BusinessCmd SU command to the business view and apply them.

[Related items]

[BusinessCmd IMPORT](#)

4. Command reference (contents not described in Help)

■ BusinessCmd command

This command can be used to import or export filter condition definitions, category definitions, group definitions, and other definition information such as reports, recoveries, and help desk related to the filter for the business view.

[Related items]

[BusinessCmd SU](#)

[BusinessCmd IMPORT](#)

[BusinessCmd EXPORT](#)

[Notes]

The following preparation is required to execute these commands on a UNIX (HP-UX (IPF), Linux) manager. In MasterScope MISSION CRITICAL OPERATIONS Ver.4.1.3, only Windows manager supports export.

■ Specifying the library path

Add the following to the environment variable LD_LIBRARY_PATH (Linux) or SHLIB_PATH (HP-UX (IPF)).

<Manager installation directory>/Manager/bin

■ Specifying the locale

Specify UTF-8 as the locale of the execution environment.

Example setting: When the shell is bash

```
# export LANG=ja_JP.utf8
```

In MasterScope MISSION CRITICAL OPERATIONS Ver.4.1.3, only Windows manager supports export.

Exported definition information can be imported only by using BusinessCmd SU and BusinessCmd IMPORT on a Windows manager.

4.1 BusinessCmd SU

This command checks the syntax of the hierarchy definition file and category definition file, and converts these files to object files.

- This command exists on the machine where the manager is installed.
- For UNIX manager (HP-UX (IPF), Linux), execute using an account that has superuser privileges.

[Path]

- Windows manager

<Manager installation directory>\Manager\bin\BusinessCmd.exe

- UNIX manager (HP-UX (IPF), Linux)

<Manager installation directory>/Manager/bin/BusinessCmd.exe

[Specification method]

BusinessCmd.exe SU <SourceFile> [ObjectFile]

[Description]

Checks the syntax of the hierarchy definition file and category file specified by the <SourceFile> parameter, converts them to object files, and outputs the object files on the manager. Specify the object file name in the [ObjectFile] parameter by using an absolute path.

If a required parameter is omitted or is invalid, a usage description is displayed. If an object file already exists at the location pointed to by the path specified by <ObjectFile>, that file will be overwritten.

[Parameters]

SourceFile	Specify the name of the hierarchy definition file to be converted by using an absolute path. This item cannot be omitted.
ObjectFile	Specify the name of the object file that the converted hierarchy definition file will be output as by using an absolute path. If this item is omitted, an object file with the same name as the hierarchy definition file, except with the extension "sgo", is output in the same directory as the hierarchy definition file.

[Return values]

0 is returned on success.

Other than 0 is returned on failure.

[Related items]

[Hierarchy definition file](#)

[Category definition file](#)

[BusinessCmd IMPORT](#)

4.2 BusinessCmd IMPORT

This command is used to import the object files converted by using the BusinessCmd SU command to the business view.

- This command exists on the machine where the manager is installed.
- For UNIX manager (HP-UX (IPF), Linux), execute using an account that has superuser privileges.

[Path]

- Windows manager

<Manager installation directory>\Manager\bin\BusinessCmd.exe

- UNIX manager (HP-UX (IPF), Linux)

<Manager installation directory>/Manager/bin/BusinessCmd.exe

[Specification method]

BusinessCmd.exe IMPORT <ObjectFile>

[Description]

Imports the object file specified by the <ObjectFile> parameter to the business view.

If a parameter is invalid, a usage description is displayed.

[Parameters]

ObjectFile	Specify the name of the object file converted by using the BusinessCmd SU command by using an absolute path. This item cannot be omitted.
------------	--

[Return values]

0 is returned on success.

Other than 0 is returned on failure.

[Supplementary information]

An execution error occurs in the following cases.

- The manager is stopped when executing the command.
- A monitoring window in the configuration mode exists when executing the command.
- A file that is not the object file created by using the BusinessCmd SU command is specified as the <ObjectFile> parameter.

[Related items]

[BusinessCmd SU](#)

4.3 BusinessCmd EXPORT

This command exports the currently specified business view definitions to the hierarchy definition file and category definition file. The hierarchy definition file and category definition file are exported to the specified folder as "Hierarchy.txt" and "<Category ID>.txt", respectively.

* The hierarchy definition file output by BusinessCmd EXPORT and the hierarchy definition file output by EventCorrelationCmd EXPORT both have the same file name "Hierarchy.txt".

When using the EXPORT command of both of the functions, specify different folders for <OutPutFile Path> of BusinessCmd and <OutPutFile Path> of EventCorrelationCmd.

If export is performed with the same folder specified, the existing hierarchy definition file is overwritten.

The EXPORT command is supported in MasterScope MISSION CRITICAL OPERATIONS Ver.4.1.3 or later.

(Only Windows manager supports the EXPORT command.)

- This command exists on the machine where the manager is installed.

[Path]

- Windows manager

<Manager Installation Directory>\Manager\bin\BusinessCmd.exe

[Specification method]

BusinessCmd.exe EXPORT <OutPutFile Path>

[Description]

This command exports the currently specified business view definitions to the hierarchy definition file (Hierarchy.txt) and category definition file (<Category ID>.txt) in the folder specified by the parameter <OutPutFile Path>.

Category definition files of the number of categories are output.

If a parameter is invalid, the usage is displayed. If the hierarchy definition file and category definition file already exist in the path specified by <OutPutFile Path>, they are overwritten.

[Parameter]

OutPutFile Path	Specify the folder to which the hierarchy definition file and category definition file are exported in the absolute path. This item cannot be omitted.
-----------------	---

[Return value]

0 is returned on success.

A value other than 0 is returned on failure.

[Supplementary]

An execution error occurs in the following cases.

- The manager is stopped when the command is executed.
- The monitoring screen in definition mode exists when the command is executed.
- A non-existing folder is specified for the parameter <OutPutFile Path>.
- The parameter <OutPutFile Path> is not a folder specification.

[Related item]

[Hierarchy definition file](#)

[Category definition file](#)

5. Hierarchy definition file

The hierarchy configuration for groups and categories in the business view is defined in a hierarchy definition file. Note the following when creating a hierarchy definition file.

- Specify UTF-16 (without BOM) and CR+LF for the file character encoding and line feed code respectively for Windows manager, and UTF-8 (without BOM) and LF for the file character encoding and line feed code for UNIX manager (HP-UX (IPF), Linux).
- File description examples in this document use tabs to insert indents in order to improve the readability; however, the indents are not essential. Tabs and single-byte spaces can be used to insert indents.
- The file consists of a header part and definition part. Describe the product name, function name (BusinessView), etc. in the header part, and describe the definition details for each section ([<Section name>] to [<END_<Section name>]) in the definition part.
- If the CATEGORYID in the hierarchy definition file is changed, the messages accumulated in the past by using the old CATEGORYID cannot be viewed. Therefore, be careful when changing the CATEGORYID. If a file with the CATEGORYID changed by mistake is imported, the messages accumulated in the past can be viewed by changing the CATEGORYID back to the old one and importing the file again.
- For the items marked as **Required** in the value description, the line of Key=Value must be described when creating the hierarchy definition file. The items not marked as **Required** can be omitted. Note that the entire line must be omitted when omitting these items. (It is not possible to describe Key but not Value.)
- Add “#” at the beginning for a comment line.

[Description example]

```

FILE:Unified Management Framework
DESCRIPTION: Business hierarchy definition
FUNCTION:BusinessView
VERSION:2.0
-----
[OPTION]
    UPDATE_DEFINITION = 0
[END_OPTION]

[MSGGROUP]
    GROUPID = 001000
    GroupName = Group1
    IconName = Group.ico
    [MSGGROUP]
        GROUPID = 001100
        GroupName = Group11
        IconName = Group.ico
        [MSGCATEGORY]
            CATEGORYID = 001101
            CategoryName = Category1
            IconName = Category.ico
            FileName = CategoryDef1.txt
        [END_MSGCATEGORY]
    [END_MSGGROUP]
    [MSGCATEGORY]
        CATEGORYID = 001002
        CategoryName = Category2
        IconName = Category.ico
        FileName = CategoryDef2.txt
    [END_MSGCATEGORY]
  
```

The diagram illustrates the structure of a hierarchy definition file. A red dashed line separates the **Header part** (top) from the **Definition part** (bottom). The **Header part** includes the file name, description, function, and version. The **Definition part** is divided into two sections: **Group** and **Category**. The **Group** section includes a group ID, group name, and icon name, and can contain nested group and category definitions. The **Category** section includes a category ID, category name, icon name, and file name.

[END_MSGGROUP]

5.1 Header part

Describe the character strings in the header part as shown below.

FILE:Unified Management Framework	: Product name (cannot be changed)
Description Business hierarchy definition	: Description (any character string up to 256 characters)
FUNCTION:BusinessView	: Function name (cannot be changed)
VERSION:2.0	: File version (cannot be changed)

5.2 Definition part

5.2.1 Option definitions

(1) [OPTION] to [END_OPTION]

This is the root section. Describe whether or not to allow the business view definitions to be updated from the monitoring window in this section.

Key	Value
UPDATE_DEFINITIO N	<p>Specification of whether to update business view definitions from the monitoring window</p> <p>Specify whether or not to allow the business view definitions to be updated from the monitoring window.</p> <p>0: Update allowed 1: Update not allowed *Default</p> <p>Notes</p> <p>If updating is not allowed, the following operations cannot be performed in the monitoring window.</p> <ul style="list-style-type: none">- Adding, updating, deleting, or moving a group or category.- Adding, updating, or deleting a filter. *The definition of a report or recovery can be changed. <p>Filters can be viewed in the filter dialog box.</p> <ul style="list-style-type: none">- Adding, updating, or deleting a schedule for a group or category. <p>Specify "update not allowed" in cases such as when you want to overwrite the definitions by using the import command rather than from the monitoring window.</p> <p><u>For export, it is output if the setting value is [0:Update allowed] and not output if it is [1:Update not allowed].</u></p>

5.2.2 Group definitions

(1) [MSGGROUP] to [END_MSGGROUP]

Describe the group definitions in this section.

Multiple [MSGGROUP] items can be described (as many as the number of groups). This section can be described under the root or the [MSGGROUP] section.

Key	Value
-----	-------

Key	Value
GROUPID	<p><u>Identification number of the group. Required</u></p> <p>In an environment of MasterScope MISSION CRITICAL OPERATIONS Ver.4.1.2 or earlier, specify the group-specific identification number in a hexadecimal number from "00000100" to "00999999". (* ABCDEF notations cannot be used.) In an environment of MasterScope MISSION CRITICAL OPERATIONS Ver.4.1.3 or later, specify the group-specific identification number in a hexadecimal number from "00000100" to "FFFFFFFF".</p> <p>When multiple group definitions are created, the same identification number (GROUPID) cannot be specified. The same identification number as the number specified for other items (FILTERID, CATEGORYID) cannot be used.</p> <p>Caution: When importing a new group from the hierarchy definition file while performing group definition on the monitoring screen, it is recommended to set GROUPID from "00000100" to "00999999". On the monitoring screen, GROUPID is automatically set when a group is defined. The specified GROUPID is greater than "00999999" in hexadecimal. If GROUPID is redundant, the map view information defined on the monitoring screen is inherited. Be careful when adding a new definition.</p>
GroupName	<p><u>Group name</u></p> <p>Specify the display name of the group by using up to 64 characters. Required The name specified here is displayed in the business view tree.</p>
IconName	<p><u>Name of icon file to be used</u></p> <p>Specify the name of the icon file to be used as the group icon by using an absolute path of up to 256 characters. The specified icon file must have been placed in advance on the machine in which the console is installed or on which the Web console will be running.</p> <p>For export, it is output to the file if an icon file setting exists.</p>

5.2.3 Category definitions

(1) [MSGCATEGORY] to [END_MSGCATEGORY]

Describe the category definitions in this section.

Multiple [MSGCATEGORY] items can be described (as many as the number of categories). This section can be described under the root or the [MSGGROUP] section.

Key	Value
CATEGORYID	<p><u>Identification number of the category</u></p> <p>Specify a unique identification number for the category in a range of 000100 to 999999. Required The same identification number as the number specified for other items (FILTERID, GROUPID) cannot be used.</p> <p>Notes If the CATEGORYID in the hierarchy definition file is changed, the messages accumulated in the past by using the old CATEGORYID cannot be viewed. Therefore, be careful when changing the CATEGORYID.</p>

Key	Value
CategoryName	<p><u>Category name</u> Specify the display name of the category by using up to 64 characters. Required The name specified here is displayed in the business view tree.</p>
IconName	<p><u>Name of icon file to be used</u> Specify the name of the icon file to be used as the category icon by using an absolute path of up to 256 characters. The specified icon file must have been placed in advance on the machine in which the console is installed or on which the Web console will be running.</p> <p><u>For export, it is output to the file if an icon file setting exists.</u></p>
FileName	<p><u>Name of category definition file</u> Specify the name of the category definition file in which the definitions of this category are described by using up to 256 characters. Required Specify a relative path or absolute path. Example - If it is in the same folder as the hierarchy definition file FileName = CategoryDef001.txt - Absolute path FileName = c:\aaa\bbb\CategoryDef001.txt</p> <p>Notes Only ASCII characters can be used for the file name of the category definition file for UNIX manager (HP-UX (IPF), Linux).</p>

6. Category definition file

The definitions for the filter, report, recovery, and help desk for each category can be described in a category definition file.

Note the following when creating a category definition file.

- The category definition file must be stored in the same directory as the hierarchy definition file.
- Specify UTF-16 (without BOM) and CR+LF for the file character encoding and line feed code respectively for Windows manager, and UTF-8 (without BOM) and LF for the file character encoding and line feed code for UNIX manager (HP-UX (IPF), Linux).
- File description examples in this document use tabs to insert indents in order to improve the readability; however, the indents are not essential. Tabs and single-byte spaces can be used to insert indents.
- The file consists of a header part and definition part. Describe the product name, function name (BusinessView), etc. in the header part, and describe the definition details for each section in the definition part.
- For the items marked as **Required** in the value description, the line of Key=Value must be described when creating category definition file. The items not marked as **Required** can be omitted. Note that the entire line must be omitted when omitting these items. (It is not possible to describe Key but not Value.)
- Add “#” at the beginning for a comment line.

[Description example]

FILE:Unified Management Framework
DESCRIPTION: Business category definition
FUNCTION:BusinessView
VERSION:2.0

Header part



Definition part

[MESSAGE]

FILTERID = 100001
MESSAGENAME = OS event log (Service Control Manager)
TYPE = 0
CATEGORY = Application
NODE = localhost
APPLICATION = Service Control Manager
OBJECT = 0000
MESSAGEID = 00007034
MESSAGETEXT = Stop
SELPOS = (1,"SNMP", =)
SELKEY = (error_number, "2", >=)
SEVERITY = 257
OVERRIDING_SEVERITY = 258
DISPLAYPOS = 1
RecoveryAutoConfirm = 1
ReportAutoConfirm = 1

[HELP]

APPLICATION = C:\WINDOWS\system32\notepad.exe
DIRECTORY = D:\
OPTION = D:\SNMPHELP.txt

[RELATION1]

RELATION = 1
BUTTON_TEXT = Knowledge
APPLICATION = D:\Tool\KMS.exe
DIRECTORY = D:\Tool
OPTION = -T SNMP

[RELATION2]

RELATION = 1
BUTTON_TEXT = External page
APPLICATION = C:\Program Files\Internet Explorer\iexplore.exe
DIRECTORY = %HOMEDRIVE%%HOMEPATH%
OPTION = http://www.snmp.jp

[OPTION1]

BUTTON_TEXT = KMS information
VIEW_TYPE = 0
TEXT = D:\Tool\SNMP\7034.html

[OPTION2]

BUTTON_TEXT = Contact list
VIEW_TYPE = 1
TEXT = C:\Address\SNMP.txt

[REPORT]

PatlitePolicy = 1
MailPolicy = 1
ActionPolicy = 1

[END_REPORT]

[RECOVERY]

Description = Recovery
HistoricalComment = 2010/05/15 contact by phone <CR>2010/05/16 recovered
Recovery = 1
[END_RECOVERY]
[HELPDESK]
HelpDeskPolicy = 1001
[END_HELPDESK]
[REPORT_DESCRIPTION]
[PATLITE_POLICY_1]
PolicyName = For center
DestinationID = 1
SEVERITY258 = 000111
SEVERITY264 = 000000
[END_PATLITE_POLICY_1]
[PATLITE_DESTINATION_1]
DestinationName = Center patrol lamp
HostName = 10.20.30.40.
Type = 1
LoginName = patlite
[END_PATLITE_DESTINATION_1]
[MAIL_POLICY_1]
PolicyName = For mobile
MailServerID = 1
SendTo = AAA@mail.com
SendCc = ZZZ@mail.com
EnCode = 65001
Subject = Auto sending mail
MailText = An error occurred on the ABC system.<CR>Error message: \$MESSAGETEXT\$
[END_MAIL_POLICY_1]
[MAIL_SERVER_1]
MailServerName = In-house mail server
HostName = 11.22.33.44
Port = 25
MailFrom = MasterScope@mail.com
Authentication = 1
LoginName = MasterScope
PasswordText = pass
[END_MAIL_SERVER_1]
[ACTION_POLICY_1]
PolicyName = Dedicated system report
Command = D:\ABCSystem\abc.exe
WorkDirectory = D:\ABCSystem
Option = SNMP
[END_ACTION_POLICY_1]
[END_REPORT_DESCRIPTION]
[RECOVERY_DESCRIPTION]
[RECOVERY_1]
Description = Recovery execution command
RecoveryType = 1
[ACTION]
Description = Recovery1
TargetHost = localhost
Command = recvery.exe

Report

Recovery

```

WorkDirectory = D:\
Option = -reboot
[END_ACTION]
[END_RECOVERY_1]
[END_RECOVERY_DESCRIPTION]
[HELPDESK_DESCRIPTION]
[HELPDESK_POLICY_1]
    HelpDeskPolicy=1001
    Service=109
    PolicyName=SManagerDef
[SMLINKER_DESCRIPTION]
    [SML_POLICY]
        SML_Description=Failure registration of business system A
        SML_RegisterType=1
        SML_MappingID=100
    [END_SML_POLICY]
    [SML_MAPPING]
        SML_MappingName=The notification about the business system A
    [SML_FIELD_1]
        SML_FieldName=logical.name
        SML_InputNeeded=1
        SML_BeDisplayed=1
        SML_Editable=1
        SML_EnableLF=0
        SML_FieldDisplayName=Items affected
        SML_Value=$NODE$
    [END_SML_FIELD_1]
    [SML_FIELD_2]
        SML_FieldName=network.name
        SML_InputNeeded=0
        SML_BeDisplayed=0
        SML_Editable=0
        SML_EnableLF=0
    [END_SML_FIELD_2]
    [END_SML_MAPPING]
[END_SMLINKER_DESCRIPTION]
[END_HELPDESK_POLICY_1]
[END_HELPDESK_DESCRIPTION]

```

6.1 Header part

Describe the character strings in the header part as shown below.

FILE:Unified Management Framework	: Product name (cannot be changed)
DESCRIPTION: Business category definition	: Description (any character string up to 256 characters)
FUNCTION:BusinessView	: Function name (cannot be changed)
VERSION:2.0	: File version (cannot be changed)

6.2 Definition part

6.2.1 Filter definitions

(1) [MESSAGE]

This is the root section. Describe the filter conditions for extracting output messages in this section.

Multiple [MESSAGE] items can be described (as many as the number of filters). When there are multiple [MESSAGE] items, describe them in the order of execution (from the top of the filter definition dialog box).

Note the following when describing this section.

- If [1: Delete] is specified for TYPE (filter type) in [MESSAGE], OVERRIDING_SEVERITY, DISPLAYPOS, AutoConfirm, RecoveryAutoConfirm, ReportAutoConfirm, HelpDeskAutoConfirm and HelpDeskManual are disabled. In addition, the file is not output during export.
- “!” , which indicates NOT, must be specified right before “=” without any character in between (for example, “Key != Value”). If there is a space between the “!” and the “=”, the space is recognized as part of Key.
- Commas (,) and double quotation marks (“”) cannot be used for Value.

Key	Value
FILTERID	<p><u>Identification number of filter</u> Required</p> <p>In an environment of MasterScope MISSION CRITICAL OPERATIONS Ver.4.1.2 or earlier, specify the unique identification number in a hexadecimal number from "00000100" to "00999999". (* ABCDEF notations cannot be used.) In an environment of MasterScope MISSION CRITICAL OPERATIONS Ver.4.1.3 or later, specify the unique identification number in a hexadecimal number from "00000100" to "FFFFFFFF".</p> <p>When multiple filter definitions are created, the same identification number (GROUPIX) cannot be specified. The same identification number as the number specified for other items (FILTERID, CATEGORYID) cannot be used.</p>
MESSAGENAME	<p><u>Filter for message name on filter definition tab</u></p> <p>Specify the filter for the message name by using up to 256 characters. Required Note that a replacement character string can be described for the message overview.*1</p>
TYPE	<p><u>Type of filter on filter definition tab</u></p> <p>Specify the type of filter. 0: Store *Default 1: Delete</p> <p><u>For export, it is output to the file if a type is 1:Delete.</u></p>
CATEGORY CATEGORY!	<p><u>Filter for category on filter definition tab</u></p> <p>Specify the filter for the category by using up to 32 characters. - Specify CATEGORY when “NOT” is OFF, and CATEGORY! when “NOT” is ON. Specify either CATEGORY or CATEGORY!, but not both.</p> <p><u>For export, it is output to the file if a category setting exists.</u></p>
NODE NODE!	<p><u>Filter for node on filter definition tab</u></p> <p>Specify the filter for the name of the node to which messages were output by using up to 256 characters in a regular expression format.*2 - Specify NODE when “NOT” is OFF, and NODE! when “NOT” is ON. Specify either of NODE or NODE!.</p> <p><u>For export, it is output to the file if a node setting exists.</u></p>
APPLICATION APPLICATION!	<p><u>Filter for application on filter definition tab</u></p> <p>Specify the filter for the name of the application to which messages were output by using up to 128 characters in a regular expression format. This is equivalent to the source item of the event log.*2 - Specify APPLICATION when “NOT” is OFF, and APPLICATION! when “NOT” is ON. Specify either APPLICATION or APPLICATION!, but not both.</p> <p><u>For export, it is output to the file if an application setting exists.</u></p>

Key	Value
OBJECT OBJECT!	<p><u>Filter for object on filter definition tab</u></p> <p>Specify the filter for the name of the object for which messages were generated by using up to 128 characters in a regular expression format.*2</p> <ul style="list-style-type: none"> - Specify OBJECT when "NOT" is OFF, and OBJECT! when "NOT" is ON. Specify either OBJECT or OBJECT!, but not both. <p><u>For export, it is output to the file if an object setting exists.</u></p>
MESSAGEID MESSAGEID!	<p><u>Filter for message ID on filter definition tab</u></p> <p>Specify the filter for the message ID by using up to 128 characters in a regular expression format.*2</p> <p>This is equivalent to the event ID of the event log.</p> <ul style="list-style-type: none"> - Specify MESSAGEID when "NOT" is OFF, and MESSAGEID! when "NOT" is ON. Specify either MESSAGEID or MESSAGEID!, but not both. <p><u>For export, it is output to the file if a message id setting exists.</u></p>
MESSAGETEXT MESSAGETEXT!	<p><u>Filter for message text on filter definition tab</u></p> <p>Specify the filter for the message text by using up to 1024 characters in a regular expression format.*2</p> <ul style="list-style-type: none"> - Specify MESSAGETEXT when "NOT" is OFF, and MESSAGETEXT! when "NOT" is ON. Specify either MESSAGETEXT or MESSAGETEXT!, but not both. <p><u>For export, it is output to the file if a message text setting exists.</u></p>
SELPOS SELPOS!	<p><u>Specification of location on filter definition tab</u></p> <p>Up to 8 search conditions can be specified when specifying a location in the message text.</p> <ul style="list-style-type: none"> - Specify SELPOS when "NOT" is OFF, and SELPOS! when "NOT" is ON. - Value is described in the format of (<Location>, "<Comparison value>", <Condition>). <p><Location></p> <p>Specify the starting character in the message text (what number character from the beginning of the message) to compare in a range from 1 to 1024.</p> <p>"<Comparison value>"</p> <p>Specify the value to compare by using up to 64 characters.</p> <p>The comparison value must be enclosed in double quotation marks (""). Double quotation marks cannot be used between the double quotation marks.</p> <p>A regular expression cannot be used for the comparison value.</p> <p><Condition></p> <p>Specify one of =, <>, >=, >, <= or < for the comparison condition.</p> <p>Matching items are searched when "=" is specified, non-matching items are searched when "<>" is specified, and binary codes (character codes) are compared when any other condition is specified.</p> <ul style="list-style-type: none"> - This key can be used to describe up to 8 items in total including SELPOS and SELPOS! as shown below. <p>SELPOS = (10,"Abnormal",=)</p> <p>SELPOS!= (20,"Manager",=)</p> <p>SELPOS = (30,"Administrator",=)</p>

Key	Value
	<p>For export, it is output to the file if an icon position specification exists.</p> <p>The position specification is not output during export if it is the default setting (1,"",=). As a result, the order may be shifted forward when import is executed.</p> <p><u>Example</u></p> <p>If only No.2 and No.4 are specified (the default is set otherwise), they are shifted forward and set in No.1 and No.2 respectively when the output export file is imported. For import of position specification, they are set to No.1, No.2, No.3, etc., in the order they are listed without specifications of numbers.</p>
<p>SELKEY SELKEY!</p>	<p><u>Specification of key on filter definition tab</u></p> <p>Up to 8 search conditions can be specified when specifying a key in the message text.</p> <ul style="list-style-type: none"> - Specify SELKEY when "NOT" is OFF, and SELKEY! when "NOT" is ON. - Value is described in the format of (<Key value>, "<Comparison value>", <Condition>). <p><u><Key value></u></p> <p>Specify the key in the message text license by using up to 64 characters. Double quotation marks cannot be used.</p> <p><u>"<Comparison value>"</u></p> <p>Specify the value to compare by using up to 64 characters. The comparison value must be enclosed in double quotation marks (""). Double quotation marks cannot be used between the double quotation marks.</p> <p>When "=" is specified for <Condition>, describe the comparison value in a regular expression.*2</p> <p><u><Condition></u></p> <p>Specify one of =, <>, >=, >, <= or < for the comparison condition. When "=" is specified for the comparison condition, a regular expression is applied to <Comparison value>. When a condition other than "=" is specified, the binary code (character code) of the character string specified for the comparison value is compared.*2</p> <ul style="list-style-type: none"> - The key value and comparison value used for the key specification must be enclosed in separators in the message text. The recognizable separators are single-byte and double-byte spaces, (,), [,], {, }, < and >. - This key can be used to describe up to 8 items in total including SELKEY and SELKEY! as shown below. <p>SELKEY = (error_number,"2",>=)</p> <p>SELKEY!= (count,"0",=)</p> <p>SELKEY = (max,"8",<=)</p> <hr/> <p><u>For export, it is output to the file if a key specification exists.</u></p> <p><u>The key specification is not output during export if it is the default setting (1,"",=).</u> As a result, the order may be shifted forward when import is executed.</p> <p><u>Example</u></p> <p><u>If only No.2 and No.4 are specified (the default is set otherwise), they are shifted forward and set in No.1 and No.2 respectively when the output export file is imported. For import of position specification, they are set to No.1, No.2, No.3, etc., in the order they are listed without specifications of numbers.</u></p>

Key	Value
SEVERITY SEVERITY!	<p><u>Specification of severity on filter definition tab</u> Specify the severity ID. For details about the severity ID, see "8. Appendix: List of severity IDs". - Specify SEVERITY when "NOT" is OFF, and SEVERITY! when "NOT" is ON. Specify either SEVERITY or SEVERITY!, but not both.</p> <p><u>For export, it is output to the file if a severity setting exists.</u></p>
OVERRIDING_SEVERITY	<p><u>Change of severity on display definition tab</u> Specify the severity ID to be used when the severity of the message that matched the filter condition is changed. For details about the severity ID, see "8. Appendix: List of severity IDs".</p> <p><u>For export, it is output to the file if a type of filter setting is 1:Store and a severity change setting exists.</u></p>
DISPLAYPOS	<p><u>Display of starting location on display definition tab</u> Specify the starting location when displaying message text in the message list and message details dialog boxes in a range from 1 to 512. 1 *Default</p> <p><u>For export, it is output to the file if a type of display of starting location is not 1.</u></p>
AutoConfirm	<p><u>Message reception specification of the [Display Setting] tab ([Auto confirmation when received])</u> <u>Specify whether to define auto confirmation upon reception (ON/OFF).</u> 0: OFF * Default 1: ON (This item is supported in Ver.4.1.3 or later. Only Windows manager supports it.)</p> <p><u>For export, it is output to the file if (1:ON) is specified in [Auto confirmation when received].</u></p>
RecoveryAutoConfirm	<p><u>Specification of recovery processing on recovery definition tab (specification of auto confirmation processing upon recovery completion)</u> Specify whether auto confirmation processing has been defined for recovery processing (ON/OFF). This function is enabled only when recovery is specified. 0: OFF *Default 1: ON</p> <p><u>For export, it is output to the file if a recovery is (1:ON) and specification of auto confirmation processing upon recovery completion.</u></p>
ReportAutoConfirm	<p><u>Specification of reporting on recovery definition tab (specification of auto confirmation processing upon report completion)</u> Specify whether auto confirmation processing has been defined for reporting (ON/OFF). This function is enabled only when reporting is specified. 0: OFF *Default 1: ON</p> <p><u>For export, it is output to the file if a report is (1:ON) and specification of auto confirmation processing upon report completion.</u></p>
HelpDeskAutoConfirm	<p><u>Help desk specification of the [Recovery Setting] tab ([Auto confirmation when closed])</u> <u>Specify whether to define auto confirmation upon help desk (ON/OFF).</u> 0: OFF * Default 1: ON (This item is supported in Ver.4.1.3 or later. Only Windows manager supports it.)</p>

Key	Value
	<u>For export, it is output to the file if (1:ON) is specified in [Auto confirmation when closed] and help desk specification is (1:ON).</u>
HelpDeskManual	<u>Help desk specification of the [Recovery Setting] tab ([Manual confirmation when closed])</u> Specify whether to define manual confirmation upon help desk (ON/OFF). 0: OFF * Default 1: ON (This item is supported in Ver.4.1.3 or later. Only Windows manager supports it.)
	<u>For export, it is output to the file if (1:ON) is specified in [Manual confirmation when closed] and help desk specification is (1:ON).</u>

*1: See the following sections in the Help.

[Monitor the message] - [Define message monitoring] - [Define the condition and displaying way of messages storing to the category] - [Define the selecting conditions for the message]

*2: See the following sections in the Help.

[Monitor the message] - [Define message monitoring] - [Define the condition and displaying way of messages storing to the category] - [Examples of regular expressions]

* When setting is performed on the monitoring screen, an error is displayed if an invalid regular expression is entered. However, such a check is not performed for the SU command. Make sure to enter a valid regular expression.

(2) [HELP]

Describe in [MESSAGE]. Describe the user help for the messages that matched the filter condition in this section. The user help described here launches when the [User Help] button in the message details dialog box is clicked. Note the following when describing this section.

- If [1: Delete] is specified for TYPE (filter type) in [MESSAGE], this section is disabled.
- Do not specify DIRECTORY and OPTION if APPLICATION is not specified.

When exporting this section, note the following.

- If the filter definition type [1 : Delete] is specified, this section is not output to the file during export.

Key	Value
APPLICATION	<u>Help display specification of the [Display Setting] tab: Application</u> Specify the application started when displaying help on the console in the absolute path by using up to 256 characters. In the file path name, an environment variable (in the "%~%" format) of the machine on which the console or Web console is running can be used.
	<u>For export, it is output to the file if an application setting exists.</u>
DIRECTORY	<u>Help display specification of the [Display Setting] tab: Working directory</u> Specify the working directory for starting the application on the console in the absolute path by using up to 256 characters. In the directory path name, an environment variable (in the "%~%" format) of the machine on which the console or Web console is running can be used. To specify a command using the working directory for APPLICATION, make sure to specify the absolute path.
	<u>For export, it is output to the file if an application setting exists.</u>
OPTION	<u>Help display specification of the [Display Setting] tab: Option</u> Specify the parameter for starting the application by using up to 128 characters. In the option parameter, an environment variable (in the "%~%" format) of the machine on which the console or Web console is running can be used.
	<u>Replacement character strings can be used in OPTION. * 1</u>
	<u>For export, it is output to the file if an option setting exists.</u>

*1: See the following sections in the Help.

[Monitor the message] - [Define message monitoring] - [Define the condition and displaying way of messages

storing to the category] - [Define the display setting]

(3) [RELATION1]/[RELATION2]

Describe in [MESSAGE]. Describe information related to the messages that matched the filter condition in this section. The information described here is shown when the button specified by [BUTTON_TEXT] is displayed and clicked in the message details dialog box.

Note the following when describing this section.

- If [1: Delete] is specified for TYPE (filter type) in [MESSAGE], this section is disabled.
- If RELATION is [1: ON], BUTTON_TEXT and APPLICATION must be specified.

When exporting this section, note the following.

- If the filter definition type [1 : Delete] is specified, this section is not output to the file during export.

Key	Value
RELATION	Related information 1/Related information 2 of the [Recovery Setting] tab: ON/OFF Specify whether to define related information as recovery definition (ON/OFF). 0: OFF * Default 1: ON
	For export, it is output to the file if related information is [1:ON].
BUTTON_TEXT	Related information 1/Related information 2 of the [Recovery Setting] tab: Display name Specify the button name displayed on the [Message Detail] screen by using up to 16 characters.
	* [Required] if the RELATION key is [1:ON]. For export, it is output to the file if a display name setting exists.
APPLICATION	Related information 1/Related information 2 of the [Recovery Setting] tab: Application Specify the application started when displaying related information on the console in the absolute path by using up to 256 characters. In the file path name, an environment variable (in the "%~%" format) of the machine on which the console or Web console is running can be used.
	* [Required] if the RELATION key is [1:ON]. For export, it is output to the file if an application setting exists.
DIRECTORY	Related information 1/Related information 2 of the [Recovery Setting] tab: Working directory Specify the working directory for starting the application in the absolute path by using up to 256 characters. In the directory path name, an environment variable (in the "%~%" format) of the machine on which the console or Web console is running can be used. To specify a command using the working directory for APPLICATION, make sure to specify the absolute path.
	For export, it is output to the file if a working directory setting exists.
OPTION	Related information 1/Related information 2 of the [Recovery Setting] tab: Option Specify the parameter for starting the application by using up to 128 characters. In the option parameter, an environment variable (in the "%~%" format) of the machine on which the console or Web console is running can be used. Replacement character strings can be used in OPTION. * 1
	For export, it is output to the file if an option setting exists.

*1: See the following sections in the Help.

[Monitor the message] - [Define message monitoring] - [Define the condition and displaying way of messages storing to the category] - [Define the recovery setting]

(4) [OPTION1]/[OPTION2]

Describe in [MESSAGE]. Describe the option information for the messages that matched the filter condition in

this section. The information described here is shown when the tab specified by [BUTTON_TEXT] is displayed and clicked in the message details dialog box.

Note the following when describing this section.

- If [1: Delete] is specified for TYPE (filter type) in [MESSAGE], this section is disabled.
- Do not describe TEXT if BUTTON_TEXT is not described.

When exporting this section, note the following.

- If the filter definition type [1 : Delete] is specified, this section is not output to the file during export.

Key	Value
BUTTON_TEXT	<p>Option information 1/Option information 2 of the [Option Setting] tab: Display title</p> <p><u>Specify the tab name displayed on the [Message Detail] screen by using up to 32 characters.</u></p> <p><u>For export, it is output to the file if a display title setting exists.</u></p>
VIEW_TYPE	<p>Option information 1/Option information 2 of the [Option Setting] tab: Display type</p> <p><u>Specify the display format (HTML format/text format) for displaying option information.</u></p> <p><u>0: HTML view * Default</u></p> <p><u>Description of displayed contents is displayed in the HTML format.</u></p> <p><u>1: Text view</u></p> <p><u>Description of displayed contents is displayed in the text format.</u></p> <p><u>For export, it is output to the file if the display type setting is [1: Text view].</u></p>
TEXT	<p>Option information 1/Option information 2 of the [Option Setting] tab: Displayed contents</p> <p><u>Specify the contents actually displayed by using up to 1024 characters.</u></p> <p><u>If [HTML view] is specified for VIEW_TYPE, HTML tags can be used for description.</u></p> <p><u>When the address of a Web page is entered directly, the page is displayed.</u></p> <p><u>A line feed is "<CR>" (4 characters).</u></p> <p><u>Replacement character strings can be used in displayed contents. * 1</u></p> <p><u>For export, it is output to the file if a displayed contents setting exists.</u></p>

*1: See the following sections in the Help.

[Monitor the message] - [Define message monitoring] - [Define the condition and displaying way of messages storing to the category] - [Define the option setting]

(5) [REPORT]

Describe in [MESSAGE]. Specify the report settings for when a message that matched the filter condition occurs in this section. For a detailed description of reporting, see [“6.2.2 Report definitions”](#).

If “1: ON [specification of auto confirmation processing upon report completion]” is specified for the definition of report auto confirmation processing (ReportAutoConfirm) in the [MESSAGE] section, the report target message can be automatically hidden upon normal completion of reporting.

Note the following when describing this section.

- If [1: Delete] is specified for TYPE (filter type) in [MESSAGE], this section is disabled.

When exporting this section, note the following.

- If the filter definition type [1 : Delete] is specified, this section is not output to the file during export.
- If the filter definition report [0 : OFF] is specified, this section is not output to the file during export.

Key	Value
PatlitePolicy	<p><u>ID indicating the policy for patrol lamp reporting to be executed</u> <u>Specify the value of X in the PATLITE_POLICY_X section.</u> <u>The PATLITE_POLICY_X section is described in "Reporting definition".</u> <u>This key can be specified multiple times as shown below.</u> <u>PatlitePolicy = 1</u> <u>PatlitePolicy = 3</u> ...</p> <p><u>For export, it is output to the file if (1:ON) is specified in [Report to Patlite] of [Report Setting].</u></p>
MailPolicy	<p><u>ID indicating the policy for email reporting to be executed</u> <u>Specify the value of X in the MAIL_POLICY_X section.</u> <u>The MAIL_POLICY_X section is described in "Reporting definition".</u></p> <p><u>For export, it is output to the file if (1:ON) is specified in [Report to E-Mail] of [Report Setting].</u></p>
ActionPolicy	<p><u>ID indicating the policy for action reporting to be executed</u> <u>Specify the value of X in the ACTION_POLICY_X section.</u> <u>The ACTION_POLICY_X section is described in "Reporting definition".</u></p> <p><u>For export, it is output to the file if (1:ON) is specified in [Report to Action] of [Report Setting].</u></p>

(6) [RECOVERY]

Describe in [MESSAGE]. Specify the recovery settings for when a message that matched the filter condition occurs in this section. For a detailed description of recovery processing, see [“6.2.3 Recovery definitions”](#).

If “1: ON [specification of auto confirmation processing upon recovery completion]” is specified for the definition of recovery auto confirmation processing (RecoveryAutoConfirm) in the [MESSAGE] section, the recovery target message can be automatically hidden upon normal completion of recovery processing.

Note the following when describing this section.

- If [1: Delete] is specified for TYPE (filter type) in [MESSAGE], this section is disabled.

When exporting this section, note the following.

- If the filter definition type [1 : Delete] is specified, this section is not output to the file during export.
- If the filter definition recovery [0 : OFF] is specified, this section is not output to the file during export.

Key	Value
Description	<p><u>Display title of recovery definition</u> <u>Specify the recovery description by using up to 512 characters.</u></p>
HistoricalComment	<p><u>Specify the history of measures taken for the filter issuing recovery by using up to 1024 characters.</u> <u>A line feed is "<CR>" (4 characters). A tab is "<TAB>" (5 characters).</u> <u>For export, it is output to the file if a recovery detail measure history setting exists.</u></p>

Key	Value
Recovery	<p>ID indicating recovery definition to execute</p> <p>Specify a value for X in the RECOVERY_X section.</p> <p>The RECOVERY_X section is described in "6.2.3 Recovery definitions".</p> <p>Multiple keys can be specified as shown below.</p> <p>Recovery=1</p> <p>Recovery=3</p> <p>...</p> <p>* This item is required if the Description key is specified.</p>

(7) [HELPDESK]

Place this section within [MESSAGE]. In this section, specify help desk when a message matching the filter conditions occurs. For detailed description of help desk, refer to "[Help desk definition](#)".

If [1:ON Manual confirmation when closed] is specified for the help desk auto confirmation definition (HelpDeskAutoConfirm) in the [MESSAGE] section, messages for help desk can be automatically hidden when help desk process finishes successfully.

If [1:ON Manual execution] is specified for the help desk manual execution definition (HelpDeskManual) in the [MESSAGE] section, incident registration is not performed automatically when a message matching the filter conditions occurs. Incident registration can be performed manually by using the [Manual execution] button on the [Attached Information] tab of [Message Detail].

(This item is supported in Ver.4.1.3 or later. Only Windows manager supports it.)

When describing this section, note the following.

- This section is invalid if [1: Delete] is specified for TYPE (filter type) in [MESSAGE].

When exporting this section, note the following.

- If the file definition type [1: Delete] is specified, this section is not output to the file during export.
- If the help desk specification of the filter definition is [0:OFF], this section is not output to the file during export.

Key	Value
HelpDeskPolicy	<p>ID indicating the applicable policy of help desk</p> <p>Specify the value of HelpDeskPolicy in the HELPDESK_POLICY_X section.</p> <p>[Required]</p> <p>The HELPDESK_POLICY_X section is described in "Help desk definition".</p> <p>The range of values that can be specified is from "100" to "4294967295".</p>

6.2.2 Report definitions

(1) [REPORT_DESCRIPTION] to [END_REPORT_DESCRIPTION]

Describe the report definitions in this section.

All of the report definitions must be described between these tags.

When exporting this section, note the following.

- If the filter definition type [1 : Delete] is specified, this section is not output to the file during export.
- If the filter definition report [0 : OFF] is specified, this section is not output to the file during export.

(2) [PATLITE_POLICY_X] to [END_PATLITE_POLICY_X]

Define the policies for the patrol lamp report in this section.

Describe this section in [REPORT_DESCRIPTION].

Multiple [PATLITE_POLICY_X] items can be specified. Describe as many X items as the number of required

policies, in the order of 1, 2, 3, and so on.

When exporting this section, note the following.

- If the report definition patlite [0 : OFF] is specified, this section is not output to the file during export.

Key	Value
PolicyName	Specify the policy name by using up to 64 characters. Required
DestinationID	<u>ID indicating the patrol lamp report destination definition</u> Required The ID to specify is the value of X in the PATLITE_DESTINATION_X section. The PATLITE_DESTINATION_X section is described in “[PATLITE_DESTINATION_X] to [END_PATLITE_DESTINATION_X]”.
SEVERITYnnn	<u>Report level for severity</u> Specify the report level for each severity by using up to 16 characters. For the report level, see the manual of the patrol lamp used. “nnn” in the key is the severity ID. For details about the severity ID, see “[8. Appendix: List of severity IDs]”. Specify as many report levels as the number of severities to report to the patrol lamp. The patrol lamp will not operate for a severity for which a report level is not described. <u>For export, it is output to the file if the setting of [Severity & Level] of the Patlite policy exists.</u>

(3) [[PATLITE_DESTINATION_X](#)] to [[END_PATLITE_DESTINATION_X](#)]

Describe the report destination of the patrol lamp report definition in this section.

Describe this section in [REPORT_DESCRIPTION].

Multiple [[PATLITE_DESTINATION_X](#)] items can be specified. Describe as many X items as the number of required report destinations, in the order of 1, 2, 3, and so on.

When exporting this section, note the following.

- If the report definition patlite [0 : OFF] is specified, this section is not output to the file during export.

Key	Value
DestinationName	Specify the report destination name by using up to 64 characters. Required
HostName	Specify the host name of the report destination by using up to 64 characters. Required If “0” is specified for the Type key, specify the host name of the machine to which the patrol lamp is connected. If “1” is specified for the Type key, specify the host name of the patrol lamp to be connected.
Type	<u>Patrol lamp model</u> Required Specify “0” for PHC-100A, PHE-3FB-RYG, or PHE-3FBE1-RYG. Specify “1” for NHE-3FB-RYG, NHC-3FB-RYG, NHM-3FB-RYG, NHS-3FB1-RYG, NHS-3FB1-RYG, or NHS-3FB1-RYG.
Port	Port number. Required Specify this key when “0” is specified for Type. Specify the port number used for the patrol lamp report in a range of 1,024 to 32,767. <u>For export, it is output to the file if report destination of patlite is (0: serial controlled type).</u>
LoginName	Login name. Required Specify this key when “1” is specified for Type. Specify the login name of a user who has execution authority for the rsh command by using up to 15 characters. <u>For export, it is output to the file if report destination of patlite is (1: network type).</u>

(4) [MAIL_POLICY_X] to [END_MAIL_POLICY_X]

Define the policies for the email report in this section.

Describe this section in [REPORT_DESCRIPTION].

[MAIL_POLICY_X] can be specified multiple times. Describe as many X items as the number of required policies, in the order of 1, 2, 3, and so on.

When exporting this section, note the following.

- If the email report of report definition type [0 : OFF] is specified, this section is not output to the file during export.

Key	Value
PolicyName	Specify the policy name by using up to 64 characters. Required
MailServerID	<u>ID indicating the email report destination definition</u> Required Specify a value for X in the MAIL_SERVER_X section. The MAIL_SERVER_X section is described in " [MAIL_SERVER_X] to [END_MAIL_SERVER_X] ".
SendTo	Specify the email destination (To).*1 Specify one destination address per key. Multiple destinations can be specified by describing multiple keys. -Example- SendTo=AAA@mail.com SendTo=BBB@mail.com Note that up to 256 characters can be specified as a destination for one SendTo key, and up to 768 characters can be specified in total for all SendTo keys. Comma (,) characters cannot be used. For export, it is output to the file if a [To] definition exists.
SendCc	Specify the email destination (Cc).*1 See the specification method for SendTo. For export, it is output to the file if a [Cc] definition exists.
SendBcc	Specify the email destination (Bcc).*1 See the specification method for SendTo. For export, it is output to the file if a [Bcc] definition exists.
EnCode	Specify a numeric value for the character encoding to use. Required Use the following values for the character encoding. 50220 : Japanese (JIS) 932 : Japanese (Shift-JIS) 65001 : Unicode (UTF-8) Caution On the monitoring screen, Chinese Traditional, etc. can be specified in addition to the encoding types that can be used for import (JIS, Shift-JIS, UTF-8). No error occurs even if an encoding a type other than that allowed is specified during export. However, an error occurs in the SU command. Make sure to change it to an allowed encoding type before executing the SU command.
Subject	Specify the email title (subject) by using up to 128 characters. A replacement character string can be used for the title.*2
MailText	Specify the email body text by using up to 2048 characters. A replacement character string can be used for the email body text.*2 Specify the email body text in one line. Do not insert a line feed in the middle of a sentence. Use "<CR>(4 characters on the left)" for a line feed and "<TAB>(5 characters on the left)" for a tab. For export, it is output to the file if a MailText definition exists.

*1: One of SendTo, SendCc and SendBcc must be specified.

*2: See the following sections in the Help.

[Report] - [How to define report] - [How to define e-mail report] - [Edit the e-mail text]

(5) [MAIL_SERVER_X] to [END_MAIL_SERVER_X]

Describe the report destination of the email report definition in this section.

Describe this section in [REPORT_DESCRIPTION].

Multiple [MAIL_SERVER_X] items can be specified. Describe as many X items as the number of required report destinations, in the order of 1, 2, 3, and so on.

When exporting this section, note the following.

- If the email report of report definition type [0 : OFF] is specified, this section is not output to the file during export.

Key	Value
MailServerName	Specify the mail server name by using up to 64 characters. Required
HostName	Specify the mail server name used for the email report by using up to 64 characters. Required Enter a host name for which name resolution can be performed.
Port	Specify the SMTP port number used for the email report in a range of 1 to 32,767. Required
MailFrom	Specify the sender address used for the email report by using up to 128 characters. Required
Authentication	Specify whether or not to use SMTP authentication (CRAM-MD5) for accessing the mail server by using a numeric value. Required 0: Do not use 1: Use (CRAM-MD5) 2: Use (PLAIN)
LoginName	Specify the login name used for authentication by using up to 128 characters. This does not need to be specified if Authentication is "0". * This is required if Authentication is "1". For export, it is output to the file if a Authentication is Use:1 or Use:2.
PasswordText	Specify the password used for authentication by using up to 128 characters. The specified value is converted to an encrypted format, saved, and used for authentication. This does not need to be specified if Authentication is "0". * This is required if Authentication is "1". For export, it is output to the file if a Authentication is Use:1 or Use:2.

(6) [ACTION_POLICY_X] to [END_ACTION_POLICY_X]

Define the policies for the action report in this section.

Describe this section in [REPORT_DESCRIPTION].

Multiple [ACTION_POLICY_X] items can be specified. Describe as many X items as the number of required action reports, in the order of 1, 2, 3, and so on.

When exporting this section, note the following.

- If the action report of report definition type [0 : OFF] is specified, this section is not output to the file during export.

Key	Value
PolicyName	Specify the policy name by using up to 64 characters. Required
Command	Specify the application to start on the manager by using an absolute path of up to 256 characters. Required An environment variable (%-% format/\$- format) indicating the manager machine to perform the action report can be used for the command path name.

Key	Value
WorkDirectory	Specify the work directory used when executing the command by using an absolute path of up to 256 characters. An environment variable (%-% format/\$- format) indicating the manager machine to perform the action report can be used for the path name. If a command that uses a work directory is specified for Command, be sure to specify it by using an absolute path. For export, it is output to the file if WorkDirectory exists.
Option	Specify the parameter used when executing the command by using up to 2048 characters. An environment variable (%-% format/\$- format) indicating the manager machine to perform the action report can be used for the parameter. A replacement character string can be used for the parameter.*1 For export, it is output to the file if Option exists.

*1: See the following sections in the Help.

[Report] - [How to define report] - [How to define action report] - [Define the policy of action report]

6.2.3 Recovery definitions

(1) [RECOVERY_DESCRIPTION] to [END_RECOVERY_DESCRIPTION]

Describe the recovery definitions in this section.

All of the recovery definitions must be described between these tags.

When exporting this section, note the following.

- If the filter definition type [1 : Delete] is specified, this section is not output to the file during export.
- If the filter definition recovery [0 : OFF] is specified, this section is not output to the file during export.

(2) [RECOVERY_X] to [END_RECOVERY_X]

Define the recovery processing in this section.

Describe this section in [RECOVERY_DESCRIPTION].

Multiple [RECOVERY_X] items can be specified. Describe as many X items as the number of required recovery processing items, in the order of 1, 2, 3, and so on.

Key	Value
Description	Describe the recovery processing by using up to 256 characters. Required
RecoveryType	Specify a numeric value for the recovery processing execution method. Required 0: Automatic execution 1: Manual execution

(3) [ACTION] to [END_ACTION]

Define the execution action for the recovery processing in this section.

Describe this section in [RECOVERY_X].

Multiple [ACTION] items can be specified. Actions are executed in order of description.

Key	Value
Description	Describe the execution action by using up to 256 characters. Required
TargetHost	Specify the host to execute the action. Required If \$NODE\$ is specified, it is replaced by the name of the node that issued the message. If \$MANAGER\$ is specified, the recovery processing is executed on the manager.
WorkDirectory	Specify the work directory used when executing the command by using up to 256 characters. An environment variable (%-% format/\$- format) indicating the host to perform the action can be used for the path name. If a command that uses a work directory is specified for Command, be sure to specify it by using an absolute path. For export, it is output to the file if WorkDirectory exists.

Key	Value
Command	Specify the application to start by using an absolute path of up to 256 characters. [Required] An environment variable (%-% format/\$- format) indicating the host to perform the action can be used for the command path name.
Option	Specify the parameter used when executing the command by using up to 256 characters. An environment variable (%-% format/\$- format) indicating the host to perform the action can be used for the parameter. For export, it is output to the file if Option exists.
NormalEndCode	Range specification of normal end of command return value Specify the range of values for the return value of the command recovered by using up to 256 characters. The string that can be entered is "-0123456789" (all one-byte characters). Example - Setting to specify the return values (2 and 5, -10 to -1) as normal end 2, 5, -10 to —1 * This item is supported by Windows manager only. Therefore, if this item exists in UNIX manager, the SU command returns an error. For export, it is output to the file if a normal end code definition exists.
AbnormalEndCode	Range specification of abnormal end of command return value Refer to the method for range specification of normal end of command return value. For export, it is output to the file if an abnormal end code definition exists.

6.2.4 Help desk definition

(1) [HELPDESK_DESCRIPTION] to [END_HELPDESK_DESCRIPTION]

In this section, specify help desk definitions.

All help desk definitions must be specified between the descriptions.

(This item is supported in Ver.4.1.3 or later. Only Windows manager supports it.)

When exporting this section, note the following.

- If the file definition type [1: Delete] is specified, this section is not output to the file during export.
- If the help desk specification of the filter definition is [0:OFF], this section is not output to the file during export.

(2) [HELPDESK_POLICY_X] to [END_HELPDESK_POLICY_X]

This section defines help desk process.

Describe this section within [HELPDESK_DESCRIPTION].

[HELPDESK_POLICY_X] can be specified multiple times. For X, specify 1, 2, etc. for the number of help desk processes required.

Key	Value
HelpDeskPolicy	ID indicating the policy of the linkage service [Required] The range of values that can be specified is from "100" to "4294967295".
PolicyName	Specify the policy display name by using up to 64 characters. [Required]
Service	Service ID to be linked [Required] Specify "109" for the service to be linked because only the ServiceManager linkage service currently exists.

6.2.5 ServiceManager linkage definition

(1) [SMLINKER_DESCRIPTION] to [END_SMLINKER_DESCRIPTION]

This section defines ServiceManager linkage.

Describe this section within [HELPDESK_POLICY_X].

(This item is supported in Ver.4.1.3 or later. Only Windows manager supports it.)

(2) [SML_POLICY] to [END_SML_POLICY]

This section defines the policy of ServiceManager linkage.

Describe this section within [SMLINKER_DESCRIPTION].

When describing this section, note the following.

- No space can be specified before or after "=" as in "Key=Value". If a space is inserted immediately before "=", it is recognized as part of Key. If a space is inserted immediately after "=", it is recognized as part of Value.

Key	Value
SML_Description	Specify the policy description by using up to 512 characters.
SML_RegisterType	Specify the registration type of the incident in a numerical value. [Required] 0: Auto registration 1: Manual registration
SML_MappingID	ID of mapping used for incident registration [Required] The range of values that can be specified is from "1" to "65535" in decimal. The same mapping can be specified for multiple policy definitions. If it is duplicate with SML_MappingID under other [SMLINKER_DESCRIPTION], the definition is overwritten with [SML_MAPPING] that is specified later (closer to the end of the file).

(3) [SML_MAPPING] to [END_SML_MAPPING]

This section defines mapping of ServiceManager linkage.

Describe this section within [SMLINKER_DESCRIPTION].

When describing this section, note the following.

- No space can be specified before or after "=" as in "Key=Value". If a space is inserted immediately before "=", it is recognized as part of Key. If a space is inserted immediately after "=", it is recognized as part of Value.

Key	Value
SML_MappingName	Specify the mapping name by using up to 256 characters. [Required]

(4) [SML_FIELD_X] to [END_SML_FIELD_X]

This section defines the fields of mapping of ServiceManager linkage.

Describe this section within [SML_MAPPING].

[SML_FIELD_X] can be specified multiple times. For X, specify 1, 2, etc. for the number of fields required.

When describing this section, note the following.

- No space can be specified before or after "=" as in "Key=Value". If a space is inserted immediately before "=", it is recognized as part of Key. If a space is inserted immediately after "=", it is recognized as part of Value.

Key	Value
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Key	Value
SML_FieldName	Specify the field name by using up to 1024 characters. [Required] The string that matches the item name of the event accepted as an incident in the ServiceManager side must be specified (the default type is pmo). Example [SML_FIELD_1] SML_FieldName= logical.name ... [END_SML_FIELD_X] [SML_FIELD_1] SML_FieldName= network.name ... [END_SML_FIELD_X]
SML_InputNeeded	Specify whether input of the item is required in the event in a numerical value. 0: Not required * Default 1: Required
SML_BeDisplayed	Specify whether to display the content of the item on the [Registered Information Confirm] screen for manual registration of the incident in a numerical value. 0: Do not display * Default 1: Display
SML_Editable	Specify whether to allow editing of the content of the item on the [Registered Information Confirm] screen for manual registration of the incident in a numerical value. 0: Editing not allowed * Default 1: Editing allowed
SML_EnableLF	Specify whether to allow line feeds in the value string for input of multiple lines in a numerical value. 0: Line feed not allowed * Default 1: Line feed allowed
SML_FieldDisplayName	Specify another name of the item displayed on the [Registered Information Confirm] screen and [History confirmation] screen for manual registration of the incident by using up to 256 characters.
SML_Value	Specify the initial values assigned to each of the items of the event by using up to 512 characters. It cannot be omitted if SML_InputNeeded is required. Replacement character strings can be used. * 1 For a line feed within a string, specify "<CR>" (4 characters).

*1: See the following sections in the Help.

[Register an Incident into ServiceManager]-[Set the Incident Registration Function]-[Set the Incident Registration Function]

7. Cautions

- The import function cannot be used on consoles and managers running versions of MasterScope MISSION CRITICAL OPERATIONS older than Ver. 3.6.2. If a version of MasterScope MISSION CRITICAL OPERATIONS older than Ver. 3.6.2 is being used, upgrade all consoles and managers. If an import is executed by a console or a manager running a version of MasterScope MISSION CRITICAL OPERATIONS older than Ver. 3.6.2, the console or manager might not operate correctly, and the monitoring definitions might be corrupted. In this case, reinstall the product, or restore the product from a backup file.
- The import function of help desk and ServiceManager linkage cannot be used in the console/manager of MasterScope MISSION CRITICAL OPERATIONS Ver.4.1.3 or earlier.
- The export function cannot be used in the console/manager of MasterScope MISSION CRITICAL OPERATIONS Ver.4.1.3 or earlier.

8. Appendix: List of 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
[PROCESSTOP]	SEV_PROCESSTOP	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 USER n ($n=1,2,\dots,32$) is $511+n$.