

CA VM:Schedule™

Release Notes

Version 2.0, First Edition



9/25/2013

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CA Technologies Product References

This document references the following CA Technologies products:

- CA VM:Schedule™
- CA Mainframe VM Product Manager

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Contents

Chapter 1: Introduction	7
CA Branding Changes	7
Changes to CA VM:Schedule	7
Changes to Release Naming and Numbering	7
Chapter 2: New Features	9
Single System Image Exploitation	9
VM Common Nucleus.....	9
New Operator Commands	10
CMDCHECK User Exit.....	10
New Utilities	10
Chapter 3: Changes to Existing Features	11
Single System Image Member Name (SYSNAME)	11
Changes to User Exits	13
Four Digit Message Numbers	14
z/VM System Configuration Changes for Single System Image mode operation	14
Configuration File Changes.....	14
Changes to the VMRGRW Report Utility	14
Discontinued Features	15
Chapter 4: Documentation Updates	17
Documentation Set	17
Product Documentation	18
CA HTML Bookshelf	19
Search the Bookshelf.....	19
Changes to CA Mainframe VM Product Manager 1.2 General Report Writer Guide.....	20
Appendix A: Messages	21

Chapter 1: Introduction

CA VM:Schedule Version 2.0 contains changes to exploit usage on z/VM Single System Image (SSI) Clusters and other miscellaneous enhancements. These Release Notes contain information about the following aspects of the product:

- New features and enhancements to existing features in *CA VM:Schedule* Version 2.0
- Documentation for the current release of *CA VM:Schedule*
- Branding changes to *CA VM:Schedule* and related products.

CA Branding Changes

This section provides information about branding changes specific to *CA VM:Schedule*.

Changes to CA VM:Schedule

The current release of the product has been rebranded as *CA VM:Schedule* Version 2.0.

Changes to Release Naming and Numbering

The release name and number of the prior release of *CA VM:Schedule* was "Release 1.4" following the convention "Release *vv.rr*," where:

- "Release" denoted the expanded form of a new release.
- "*vv*" denoted version level.
- "*rr*" denoted release level.

The new release name and number of *CA VM:Schedule* is "Version 02.0", following the convention "Version *vv.O*" where:

- "Version" denotes the expanded form of a new version.
- "*vv*" denotes version level.
- "*O*" indicates that the version has had no subordinate releases.

Note: The product interface includes a leading zero in the version field, but references in documentation omit the leading zero.

Chapter 2: New Features

This section provides a summary of new features provided in *CA VM:Schedule* Version 2.0.

This section contains the following topics:

[Single System Image Exploitation](#) (see page 9)

[VM Common Nucleus](#) (see page 9)

[New Operator Commands](#) (see page 10)

[CMDCHECK User Exit](#) (see page 10)

[New Utilities](#) (see page 10)

Single System Image Exploitation

CA VM:Schedule Version 2.0 allows you to run one *CA VM:Schedule* service virtual machine to initiate scheduled requests for all members of your Single System Image (SSI) Cluster. Unless given a specific member to run on, *CA VM:Schedule* requests run on the SSI member where *CA VM:Schedule* is running.

CA VM:Schedule can be initialized on any member of the SSI cluster. Requests that are not assigned to a system run on the system where the system virtual machine is running. Therefore, these requests can run on any cluster member. They require the resources that they use to be available on all cluster members. Ensure that every member of the SSI cluster can run these common resources. If a request requires resources available only on a specific member, assign that member to the request through SYSNAME.

Note: For more information on Single System Image mode, see the *Administration Guide*.

VM Common Nucleus

CA VM:Schedule has been converted to use the CA VM Common Nucleus. The VM Common Nucleus is a collection of services and routines that several CA VM products share, improving reliability and maintainability. Maintenance and enhancements reach publication more quickly because they can be developed once and then implemented in each CA VM product incorporating the Common Nucleus. In addition, the VM Common Nucleus provides infrastructure such as TCP/IP support that can be leveraged to provide future enhancements.

New Operator Commands

CA VM:Schedule 2.0 has added the following new commands. All these commands require OPERATOR authorization and are described in the *Operator Guide*.

QLOCK

The QLOCK command allows you to query outstanding internal locks in the product.

QPCB

The QPCB command allows you to display all current processes in the CA VM:Schedule service virtual machine.

QREPLY

The QREPLY command allows you to query any outstanding replies for CA VM:Schedule.

CMDCHECK User Exit

CA VM:Schedule 2.0 adds one new user exit, CMDCHECK. This new user exit is called for commands executed from CA VM:Schedule full screen menus. This new user exit allows you to reject or accept commands coming from full screen menus. VMDEXIT5 XEXEC is provided as a sample for the CMDCHECK user exit. The user exit is described in the *Administration Guide*.

New Utilities

CA VM:Schedule 2.0 adds the following new utilities. Both utilities work with the CA VM:Schedule IRBDB database file of requests. The utilities are described in the *Administration Guide*.

VMDCHSYS

This utility allows you to replace the system name field in the product IRBDB database to a new system name or to indicate no system preference.

VMDDBEXT

This utility allows you extract selected records from the IRBDB database.

Chapter 3: Changes to Existing Features

This section provides a summary of changes to existing features provided in *CA VM:Schedule Version 2.0*.

This section contains the following topics:

[Single System Image Member Name \(SYSNAME\)](#) (see page 11)

[Changes to User Exits](#) (see page 13)

[Four Digit Message Numbers](#) (see page 14)

[z/VM System Configuration Changes for Single System Image mode operation](#) (see page 14)

[Configuration File Changes](#) (see page 14)

[Changes to the VMRGRW Report Utility](#) (see page 14)

[Discontinued Features](#) (see page 15)

Single System Image Member Name (SYSNAME)

To indicate Single System Image member name, this version of the product adds a number of SYSNAME input and output fields.

SYSNAME Added As...	Description	More information
Option in CHANGE and SCHEDULE commands (Line mode and full-screen menu)	Specifies the system name where the request runs. If not specified, the request runs on the SSI member where <i>CA VM:Schedule</i> is running when it is time to run the request.	See the <i>User Guide</i> and the <i>Operator Guide</i> .
Option in DISPLAY and QUERY commands (Line mode and full-screen menu)	Selection criteria for the requested output. If not specified, the default is all systems. To see requests that do not have a system name assignment, specify * for SYSNAME.	See the <i>User Guide</i> and the <i>Operator Guide</i> .

SYSNAME Added As...	Description	More information
Field in DISPLAY output and QUERY output	When running in SSI mode, <i>CA VM:Schedule</i> provides any system name information associated with the displayed requests. Requests that do not have a specific system name assignment show a SYSNAME of '*'.	
Field keyword in VMDRPT utility	SYSNAME can be used with IGNORE, SELECT, and SORT control records. VMDRPT also supports including the system name information in the report output.	See the <i>Administration Guide</i> .

Changes to User Exits

CA VM:Schedule 2.0 includes the following changes to existing user exits. User exits are described in the *Administration Guide*.

Assembler Not Supported (All User Exits)

CA VM:Schedule no longer supports both assembler and REXX user exits. Only REXX user exits are now supported. Customers running assembler user exits must convert their current assembler user exits to REXX.

COMMAND User Exit

Review any current implementation of a COMMAND user exit for needed changes. VMDEXIT3 XEXEC is provided as a new sample for the COMMAND user exit. Changes to the COMMAND user exit are:

- The COMMAND user exit is only supported as a REXX EXEC and must have a filetype of EXEC.
- The following return codes are now accepted:
 - 0 – Accept the command as is.
 - 4 – Accept the command and change it to the command pushed back on the stack.
 - 8 – Reject the command and give the message that is pushed back on the stack.

MONITOR User Exit

Review any current implementation of a MONITOR user exit for needed changes. VMDEXIT1 XEXEC is provided as a new sample for the MONITOR user exit. Changes to the MONITOR user exit are:

- The MONITOR user exit is only supported as a REXX EXEC and must have the filetype of EXEC.
- The MONITOR user exit no longer accepts back anything in the program stack. The product updates the limit exception counters so stacking back the updated data is no longer necessary.
- Return codes are not significant for the MONITOR user exit. Any action that is taken for exceeded limits must be performed in the user exit. *CA VM:Schedule* uses return codes over 800 and negative return codes internally; do not use these codes. All other return codes are ignored.

PASSWORD User Exit

Review any current implementation of a PASSWORD user exit for needed changes. VMDEXIT4 XEXEC is provided as a new sample for the PASSWORD user exit. Changes to the PASSWORD user exit are:

- The PASSWORD user exit is only supported as a REXX EXEC and must have the filetype of EXEC.

- The PASSWORD user exit no longer accepts changes to the object user and password. If some special verification must be done, it must be done through logic in the user exit.
- The following return codes are now accepted:
 - 0 – Accept the request that requires password validation. *CA VM:Schedule* performs password validation.
 - 4 – Reject the request requiring the password validation
 - 8 – *CA VM:Schedule* validates the password using DMSPASS and base authorization on password validation.

Four Digit Message Numbers

CA VM:Schedule 2.0 uses four-digit message numbers. The previous releases of the product used three-digit message numbers.

z/VM System Configuration Changes for Single System Image mode operation

To enable IDENTITY users to issue *CA VM:Schedule* commands and run scheduled requests under SSI mode, add the following record to your z/VM system configuration:

```
DISTRIBUTE IUCV TOLERATE
```

To enable this feature, IPL every system in the SSI cluster after adding this record but before enabling SSI mode in *CA VM:Schedule*.

Configuration File Changes

To turn on Single System Image mode, add the following record to the VMSCHED CONFIG file:

```
SSI
```

Changes to the VMRGRW Report Utility

CA Mainframe VM Product Manager 1.2 has been changed to allow the specification of the SYSNAME field for VMRGRW reports. To produce a report of the *CA VM:Schedule* database that includes SYSNAME in the output, run VMSCHED4 VMRGRW. See the Documentation Updates section for updates to the *Generalized Report Writer Reference Guide*.

Discontinued Features

The AUTOLOG user exit is no longer supported in *CA VM:Schedule 2.0*. *CA VM:Schedule* must have the authority to XAUTOLOG user IDs without a password.

Chapter 4: Documentation Updates

This section contains the following topics:

[Documentation Set](#) (see page 17)

[Product Documentation](#) (see page 18)

[Changes to CA Mainframe VM Product Manager 1.2 General Report Writer Guide](#) (see page 20)

Documentation Set

The documentation set for *CA VM:Schedule* Version 2.0 contains the following deliverables:

- *CA Mainframe VM Product Manager Installation Guide* (Release 1.2)
- *CA Mainframe VM Product Manager Reference Guide* (Release 1.2)
- *CA Mainframe VM Product Manager Component Interface Guide* (Release 1.2)
- *CA Mainframe VM Product Manager DASD Utilities Guide* (Release 1.2)
- *CA Mainframe VM Product Manager Generalized Report Writer Guide* (Release 1.2, Second Edition)
- *CA VM:Schedule Installation Guide* (Version 2.0)
- *CA VM:Schedule Administration Guide* (Version 2.0)
- *CA VM:Schedule User Guide* (Version 2.0)
- *CA VM:Schedule Operator Guide* (Version 2.0)
- *CA VM:Schedule Message Reference Guide* (Version 2.0)
- *CA VM:Schedule Release Notes* (Version 2.0)

Product Documentation

Product documentation is available through CA Support Online. Most documentation is available through the CA Bookshelf interface that allows you to view and search HTML and download Adobe PDFs for printing.

Note: Logging into CA Support gives you access to more product documentation.

To locate the CA Bookshelf for your product, do the following:

1. Go to <http://ca.com/support>.
The CA Support page opens.
2. Click login and enter your email address and password, and click Submit.
The CA Support page opens, and you are logged in.
3. Select Documentation.
The Documentation page opens.
4. In the Find a Product Documentation Bookshelf section, select the Bookshelf for your product from the drop-down list, and click Go.
The Bookshelf opens. From the Bookshelf you will find information about how to view, search, and download the documentation.
5. (Optional) For other documentation not on a Bookshelf, select the following options from the Find Other Product Documentation section:
 - Select a Product: <Product Name>
 - Select a Release: <Release Number>
 - Select a Language: <Language>Click Go.
The Product Documentation Downloads page opens with the available documentation

CA HTML Bookshelf

This release contains the CA HTML Bookshelf, which is an HTML help system that provides access to all deliverables in the product documentation set in both HTML and PDF. HTML provides robust online viewing and search capabilities, while PDF provides a print-friendly option.

The HTML bookshelf features include:

- A single help screen that displays all documentation for this release.
- An all-in-one search tool that searches the entire documentation set and returns matches found in both the HTML and PDF formatted documentation, without the need for a specialized .PDX index file.
- Additional links for using the Bookshelf, downloading Acrobat Reader, and contacting CA.

Search the Bookshelf

The bookshelf includes a search facility that helps you locate information throughout the set.

To search the bookshelf

1. Enter your search criteria in the Search field in the upper right corner of the bookshelf and press Enter.

The search returns HTML results listed by topic and PDF results listed by guide. The results are sorted by date so that the most recently updated topics or PDFs appear at the top of the list. To find a topic in a PDF, open the PDF and view the list of topics within the PDF that match the search criteria.

2. (Optional) Click Sort by Relevance.

The list is reordered so that the HTML topics or PDFs that contain the most matches appear at the top of the list.

Changes to CA Mainframe VM Product Manager 1.2 General Report Writer Guide

To support *CA VM:Schedule 2.0*, the following updates were made to the *CA Mainframe VM Product Manager 1.2 Generalized Report Writer Reference Guide*. These changes appear in the Second Edition onward.

In Chapter 8, *CA VM:Schedule Data Definition Tables*, the description of the OPTFLAG2 table entry in the REQUEST3 table changes. The new description is:

Options flags. Values:

- X'40'=Request started by CLASS command
- X'10'=Scheduled request released
- X'08'=Request runs on specific SSI member

Note: The SYSNAME field is set if this bit is on.

An entry for the SYSNAME field was also added to the REQUEST3 table. The SYSNAME field specifies the name of the SSI system that the request runs on. The default value is '*', which indicates that no system name was set for the request.

In Appendix A, *Predefined Reports*, an entry was added for the VMSCHED4 report. This report on all requests includes the SYSTEM NAME.

Appendix A: Messages

This section lists the new, changed, and deleted messages in *CA VM:Schedule* Version 2.0. Note that all messages have changed from three-digit to four-digit format.

The following new messages have been added in *CA VM:Schedule* Version 2.0:

- 0336S
- 0360W
- 0361W
- 0362E
- 0363E
- 0364W
- 0365I
- 0366E
- 0367E
- 0368E
- 0369E
- 0370I
- 0371W
- 0372W

Note: Messages 1100 and above have been added to *CA VM:Schedule* 2.0 due to incorporation of the VM Common Nucleus. See the *CA VM:Schedule Version 2.0 Message Reference Guide* for additional information.

The following messages have been changed in *CA VM:Schedule* Version 2.0:

- 082E
- 089I
- 0104W
- 0316E

The following messages have been deleted in *CA VM:Schedule* Version 2.0:

- None