

**CRISP Automation Systems Documentation**  
**Manual Number: MAN-WORF-INST-031**  
**Subject: WORF Development 3.1 Installation and Configuration**  
**Date Created: 08/29/2002   Revision 1.0   Date Revised: N/A**

**Effective Date:                    08/29/2002**

**Supersedes:                        N/A**

**Revision History**

<u>Revision</u>	<u>Date Issued</u>	<u>Description</u>	<u>Author</u>	<u>Approved</u>
1.0	08/29/2002	Original Issue	S. Quayle	K. Wild

Reference Documents:

N/A

Prepared By: Stanley Quayle  
Dept: Engineering  
Effective Date: 08/29/2002

Approved By: Kenneth Wild  
Dept: Quality Assurance  
Supersedes: N/A

Note: This document is only valid on the date that it is printed.

Date Printed:

Page 1 1 of

**CRISP Automation Systems Documentation**  
**Manual Number: MAN-WORF-INST-031**  
**Subject: WORF Development 3.1 Installation and Configuration**  
**Date Created: 08/29/2002 Revision 1.0 Date Revised: N/A**

## Installation and Configuration

### **General**

This manual provides a step-by-step installation procedure for the WORF Development product, Version 3.1 and later. This procedure can be used for a new installation or for updating an existing WORF Development system.

This manual is broken down into the following sections.

<b>Section</b>	<b>Description</b>
On-Line Release Notes	Defines the location of the release notes and how to access the notes.
Requirements	Defines the system requirements before installation of WORF Development.
Using VMSINSTAL	Defines the VMSINSTAL command
Installing WORF Development	Defines the procedures to install the WORF Development product.
Configuring WORF Development	Defines the procedure to configure the WORF Development product for use.

### **NOTE**

Prepared By: Stanley Quayle  
Dept: Engineering  
Effective Date: 08/29/2002

Approved By: Kenneth Wild  
Dept: Quality Assurance  
Supersedes: N/A

Note: This document is only valid on the date that it is printed.

Date Printed:

Page 2 1 of

**CRISP Automation Systems Documentation**  
**Manual Number: MAN-WORF-INST-031**  
**Subject: WORF Development 3.1 Installation and Configuration**  
**Date Created: 08/29/2002 Revision 1.0 Date Revised: N/A**

**Before performing this procedure, verify that the system hardware and software has been properly installed per the appropriate OpenVMS documentation.**

**Refer to the Software Product Description (SPD) document for details on required OpenVMS software.**

Prepared By: Stanley Quayle  
Dept: Engineering  
Effective Date: 08/29/2002

Approved By: Kenneth Wild  
Dept: Quality Assurance  
Supersedes: N/A

Note: This document is only valid on the date that it is printed.

Date Printed:

Page 3 1 of

**CRISP Automation Systems Documentation**  
**Manual Number: MAN-WORF-INST-031**  
**Subject: WORF Development 3.1 Installation and Configuration**  
**Date Created: 08/29/2002 Revision 1.0 Date Revised: N/A**

## **On-Line Release Notes**

### ***General***

On-line release notes are provided with each distribution of WORF Development. When VMSINSTAL is invoked with the `OPTIONS N` parameter, a prompt to print or display the release notes appears during the installation.

After WORF Development has been installed, the release notes may be printed or typed by accessing the file `SYS$HELP:WORF031.RELEASE_NOTES`.

The release notes for each release of WORF Development are distributed for those users who are upgrading by several versions at once.

Prepared By: Stanley Quayle  
Dept: Engineering  
Effective Date: 08/29/2002

Approved By: Kenneth Wild  
Dept: Quality Assurance  
Supersedes: N/A

Note: This document is only valid on the date that it is printed.

Date Printed:

Page 4 1 of

**CRISP Automation Systems Documentation**  
**Manual Number: MAN-WORF-INST-031**  
**Subject: WORF Development 3.1 Installation and Configuration**  
**Date Created: 08/29/2002   Revision 1.0   Date Revised: N/A**

## **Requirements**

### ***General***

Depending on the media and the system configuration, the installation of WORF Development takes a few minutes. The following privileges and resources must be available before WORF Development can be installed.

- SETPRV privileges, or CMKRNL, WORLD, and SYSPRV privileges
- Free disk space as follows:
  - 2000 blocks on the system disk for Alpha.
  - 4200 blocks on the system disk for VAX.
  - 1500 blocks on the CRISP disk for Alpha.
  - 775 blocks on the CRISP disk for VAX.
- An additional amount of disk space equal to the total of the previous numbers is required on the system disk during installation. This space will be released when the installation completes or otherwise terminates.
- A minimum of 32 MB (VAX) or 64 MB (Alpha) of physical memory.

### ***License***

Before WORF Development can be installed, the license product authorization key (PAK) called "CRISP-DEVWORF" must be installed and loaded. If the license is not installed, the installation procedure will terminate.

Prepared By: Stanley Quayle  
Dept: Engineering  
Effective Date: 08/29/2002

Approved By: Kenneth Wild  
Dept: Quality Assurance  
Supersedes: N/A

Note: This document is only valid on the date that it is printed.

Date Printed:

Page 5 1 of

## Using VMSINSTALL

### *Description*

VMSINSTALL is the command procedure invoked to install WORF Development. Before invoking this command procedure, log into the system management account, username SYSTEM. Execution of the VMSINSTALL command procedure is shown in steps 1 and 2 of the Installing WORF Development sections of this manual.

### *Format*

The VMSINSTALL command procedure has the following syntax.

```
$ @SYS$UPDATE:VMSINSTALL WORF031 ddcu: [OPTIONS N]
```

**ddcu:** Represents a device name where the distribution volumes are mounted for WORF Development installation media, where *dd* is the device code, *c* is the controller code, and *u* is the unit number. The device name used in examples in this manual is MUA0:.

**OPTIONS N** Is an optional parameter used if you want to be prompted to display or print WORF Development release notes. If omitted, you are not prompted to display the release notes.

### *How It Works*

If you do not supply the first two parameters, VMSINSTALL prompts you for the product and device names. The syntax in this case would be as follows.

```
$ @SYS$UPDATE:VMSINSTALL
```

When VMSINSTALL is invoked, the following are checked.

- Whether you are logged in to a privileged account. It is recommended that you install

Prepared By: Stanley Quayle  
Dept: Engineering  
Effective Date: 08/29/2002

Approved By: Kenneth Wild  
Dept: Quality Assurance  
Supersedes: N/A

Note: This document is only valid on the date that it is printed.

**CRISP Automation Systems Documentation**  
**Manual Number: MAN-WORF-INST-031**  
**Subject: WORF Development 3.1 Installation and Configuration**  
**Date Created: 08/29/2002   Revision 1.0   Date Revised: N/A**

- software from the system manager's account.
- Whether you have adequate quotas for installation. VMSINSTAL checks for the following quota values.
    - ASTLM = 24
    - BIOLM = 18
    - BYTLM = 18000
    - DIOLM = 18
    - ENQLM = 30
    - FILLM = 20

At this point in the installation, VMSINSTAL checks whether any user processes are running. If VMSINSTAL detects these processes, you are prompted as to whether you want to continue the installation. Enter YES to continue or <return> to stop the installation.

Prepared By: Stanley Quayle  
Dept: Engineering  
Effective Date: 08/29/2002

Approved By: Kenneth Wild  
Dept: Quality Assurance  
Supersedes: N/A

Note: This document is only valid on the date that it is printed.

Date Printed:

Page 7 1 of

## Installing WORF Development

### ***General***

This section contains explains the installation procedure. Defaults, where available, appear in brackets throughout the installation procedure.

The installation procedure may be aborted at any time by entering CTRL/Y. If CTRL/Y is pressed, the installation procedure deletes all files it has created up to that point and returns you to the VMSINSTAL prompt.

### ***Installation Procedure***

Perform the following steps to install WORF Development.

#### **Step 1. Log in to a privileged account.**

```
<Ret>  
Username: SYSTEM<Ret>  
Password: <Ret>  
$ SET DEFAULT SYS$UPDATE <Ret>
```

#### **Step 2. Invoke VMSINSTAL**

```
$ @VMSINSTAL WORF031 MUA0: OPTIONS N <Ret>
```

OpenVMS VAX Software Product Installation Procedure V7.3

It is 16-AUG-2002 at 19:30

Enter a question mark (?) at any time for help.

Are you satisfied with the backup of you system disk [YES]? <Ret>

Prepared By: Stanley Quayle  
Dept: Engineering  
Effective Date: 08/29/2002

Approved By: Kenneth Wild  
Dept: Quality Assurance  
Supersedes: N/A

Note: This document is only valid on the date that it is printed.

**CRISP Automation Systems Documentation**  
**Manual Number: MAN-WORF-INST-031**  
**Subject: WORF Development 3.1 Installation and Configuration**  
**Date Created: 08/29/2002 Revision 1.0 Date Revised: N/A**

Press the Return key if you are satisfied with the backup of your system disk; otherwise, enter NO to discontinue the installation procedure.

### **Step 3. Mount the first installation kit volume**

Please mount the first volume of the set on MUA0:.  
Are you ready? **YES** <Ret>

The following products will be processed:

WORF V3.1

Beginning installation of WORF V3.1 at 19:35

%VMSINSTAL-I-RESTORE, Restoring saveset A...

To continue the installation, mount volume 1 and enter YES.

### **Step 4. Select a release notes option**

This step applies only if OPTIONS N was specified in step 2.

Release Notes Options:

1. Display release notes
2. Print release notes
3. Both 1 and 2
4. None of the above

Select option [2]: <Ret>

If option 1 is selected, VMSINSTAL displays the release notes. Terminate the display by pressing CTRL/C. At this time, VMSINSTAL copies the release notes to SYSS\$HELP.

If option 2 is selected, VMSINSTAL prompts you for a queue name (use this option only if a print queue has been setup on your system). Either enter a queue name or press the Return

Prepared By: Stanley Quayle

Approved By: Kenneth Wild

Dept: Engineering

Dept: Quality Assurance

Effective Date: 08/29/2002

Supersedes: N/A

Note: This document is only valid on the date that it is printed.

Date Printed:

Page 9 1 of

**CRISP Automation Systems Documentation**  
**Manual Number: MAN-WORF-INST-031**  
**Subject: WORF Development 3.1 Installation and Configuration**  
**Date Created: 08/29/2002 Revision 1.0 Date Revised: N/A**

key to send the file to the default output print device. After printing the release notes, VMSINSTAL copies the release notes to SYSS\$HELP.

Queue name [SYS\$PRINT]: <Ret>

If option 3 is selected, VMSINSTAL displays the release notes. Terminate the display by pressing CTRL/C. VMSINSTAL then prompts you for a queue name. Either enter a queue name or press the Return key to send the file to the default output print device. After printing the release notes, VMSINSTAL copies the release notes to SYSS\$HELP.

If option 4 is selected, VMSINSTAL does not display, print, or copy the release notes. It prompts you to decide whether to continue the installation.

Do you want to continue the installation [N]: **Y** <Ret>

Enter YES to continue the installation. If you enter NO, VMSINSTAL discontinues the installation.

## **NOTE**

**The version of WORF Development release notes file installed by VMSINSTAL is labeled with the current product name and version number (e.g., WORF031.RELEASE\_NOTES). Do not delete release notes for previous versions of WORF Development.**

## **Step 5. Installation questions**

This section shows the questions that are asked during installation.

Do you want to purge files replaced by this installation [YES]?

New versions of WORF Development files are provided during installation, but the old files will not be purged unless you answer YES to this question.

Prepared By: Stanley Quayle  
Dept: Engineering  
Effective Date: 08/29/2002

Approved By: Kenneth Wild  
Dept: Quality Assurance  
Supersedes: N/A

Note: This document is only valid on the date that it is printed.

Date Printed:

Page 10 1 of

**CRISP Automation Systems Documentation**  
**Manual Number: MAN-WORF-INST-031**  
**Subject: WORF Development 3.1 Installation and Configuration**  
**Date Created: 08/29/2002   Revision 1.0   Date Revised: N/A**

**Step 6. End the installation procedure**

When the installation procedure completes, the following message is displayed.

```
VMSINSTAL procedure is done at hh:mm  
$
```

The distribution media (tape) may now be removed from the drive.

Prepared By: Stanley Quayle  
Dept: Engineering  
Effective Date: 08/29/2002

Approved By: Kenneth Wild  
Dept: Quality Assurance  
Supersedes: N/A

Note: This document is only valid on the date that it is printed.

Date Printed:

Page 11 1 of

**CRISP Automation Systems Documentation**  
**Manual Number: MAN-WORF-INST-031**  
**Subject: WORF Development 3.1 Installation and Configuration**  
**Date Created: 08/29/2002   Revision 1.0   Date Revised: N/A**

## **Configuring WORF Development**

### ***All Systems***

The WORF Development kit requires VAX C on VAX systems, and DEC C on non-VAX systems. Using DEC C on VAX is supposedly possible, but has not been successful for those who have tried.

Applications developed using WORF do not require any special licensing or installation when used on CRISP/32 systems. When using a WORF application on a non-CRISP/32 system, the CRISPRTL.EXE and CRISPWORFRTL.EXE files must be installed in SYS\$LIBRARY.

If running on a CRISP/32 system, WORF applications use the Software Bus for communications with the local system.

Communications to all other systems use IEEE 802.3 messages. CRISP/32 systems running CRISP V2.7 or later are compatible with WORF.

### ***CRISP/32 Systems***

When WORF Development is installed on a system with the CRISP/32 product, the libraries and header files are added to CRISP\$LIB. Example programs are added to CRISP\$HLP.

### ***Non-CRISP/32 Systems***

Example programs are installed in SYS\$EXAMPLES, and start with "WORF". The necessary CRISP run-time libraries (RTL's) and a text library with the WORF header

Prepared By: Stanley Quayle  
Dept: Engineering  
Effective Date: 08/29/2002

Approved By: Kenneth Wild  
Dept: Quality Assurance  
Supersedes: N/A

Note: This document is only valid on the date that it is printed.

Date Printed:

Page 12 1 of

**CRISP Automation Systems Documentation**  
**Manual Number: MAN-WORF-INST-031**  
**Subject: WORF Development 3.1 Installation and Configuration**  
**Date Created: 08/29/2002 Revision 1.0 Date Revised: N/A**

files are installed in SYS\$LIBRARY.

A configuration file, WORF\_STARTUP.COM, is installed in SYS\$STSTARTUP. This must be executed at system startup. It defines CRISP\$NET00 and CRISP\$NET01 to point to the two network devices that WORF uses to communicate. Add the following to SYS\$MANAGER:SYSTARTUP\_VMS.COM (SYSTARTUP\_V5.COM for OpenVMS 5.5 systems).

```
$ @SYS$STARTUP:WORF_STARTUP ddc0: ddc1:
```

where "ddc0:" and "ddc1:" should be replaced by the device names of the network devices that WORF is to use for communications. If only one device is available on the system, do not specify the second parameter.

Prepared By: Stanley Quayle  
Dept: Engineering  
Effective Date: 08/29/2002

Approved By: Kenneth Wild  
Dept: Quality Assurance  
Supersedes: N/A

Note: This document is only valid on the date that it is printed.

Date Printed:

Page 13 1 of