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Opwise Universal Agent 5.2.0 for z/OS

Quick Start Guide

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Objective

This Opwise Universal Agent 5.2.0 for z/OS Quick Start Guide provides a short summary on how to install Opwise Universal Agent on a z/OS system and to run a few simple batch jobs demonstrating Opwise Universal Agent on z/OS. For a complete description of the installation process, see the [Opwise Universal Agent 5.2.0 Installation and Administration Guide](#).

The following information is provided:

- System Requirements
- Downloading the Opwise Universal Agent 5.2.0 for z/OS distribution file.
- Installing Opwise Universal Agent 5.2.0 on z/OS.
- Licensing Opwise Universal Agent components.
- Encrypting passwords.
- Executing a Universal Command job.
- Running a system query.

System Requirements

- z/OS 1.10 or above.
- SMP/E 3.5 or above.
- IBM Communication Server for z/OS 1.10 or above.
- IBM Language Environment (LE) for z/OS 1.10 or above.
- Windows workstation capable of establishing a TCP/IP network connection to the z/OS system.
- TSO user ID with an OMVS segment.
- About 1900 cylinders of DASD.
- Two available TCP/IP ports on z/OS.

Platform Requirements

Since platform requirements may change with new releases of a product, see [Opwise Automation Center Platform Support](#) to make sure that your platform is supported before performing an installation.

Downloading the Opwise Universal Agent 5.2.0 for z/OS Distribution File

The Opwise Universal Agent 5.2.0 for z/OS product distribution file - `sb-5.2.0.0-zos.exe` - is available for download from the [Current Product Downloads](#) page of the Stonebranch, Inc. website.

A customer user ID and password - provided by Stonebranch, Inc. - are required to access this area.

Installing Opwise Universal Agent 5.2.0 for z/OS

Step 1	Download the Opwise Universal Agent 5.2.0 for z/OS product distribution file to your Windows workstation. The distribution file is packaged as an Express/OS Windows executable file.
Step 2	Once the download is complete, run the Windows Express/OS distribution file. The Express/OS application will start and prompt you for the information it needs to transfer the z/OS installation libraries to z/OS. Once the transfer is complete, Express/OS will prompt you to submit a z/OS batch job to unpack the libraries, which have been packaged in a TSO XMIT format. Select YES to submit the batch job.
Step 3	Once the Express/OS transfer is complete and the z/OS batch job to unpack the libraries completes, a set of Opwise Universal Agent libraries will reside on z/OS. The library names start with the high-level qualifier specified in the Express/OS application. One of these libraries end with the qualifier INSTALL. This is the INSTALL library containing the installation JCL.
Step 4	Edit the #SETUP JCL member in the INSTALL library per the comments in the member. Once the edits are complete, submit the job to create the remaining installation jobs in the INSTALL library.
Step 5	Read the #README member in the INSTALL library to understand what installation jobs to run.
Step 6	Run the appropriate installation jobs in the INSTALL library as instructed by the #README document.
Step 7	APF authorize the SUNVLOAD library.
Step 8	Define the SUNVLOAD library to RACF program control facility.
Step 9	Create the Broker started task user ID.
Step 10	Define the Broker started task to the security system.
Step 11	Optionally, define SMF exit point SYSSTC.IEFACTRT if not already defined in PARMLIB member SMSPRMxx.
Step 12	Edit the SUNVSAMP(UCMDPRC) member per the instructions in the JCL comments.
Step 13	Edit the SUNVSAMP(UQRYPRC) member per the instructions in the JCL comments.
Step 14	Once the installation is complete, start the UBROKER STC with system command "S UBROKER".

Licensing your Opwise Universal Agent 5.2.0 for z/OS Components

After Opwise Universal Agent 5.2.0 for z/OS has been installed, you must configure the following Opwise Universal Agent components with product licenses before they can be used:

- Universal Command Manager
- Universal Connector
- Universal Enterprise Controller

For each component, product license information (license parameter keywords and their values) is contained in a separate text file provided by your Stonebranch, Inc. account representative.

The format of the product license file name is: *<component name>_<customer name>_<operating system>_<schedule or solution>.txt*. For example: **Agent_Stonebranch_MVS_A1.txt**.

(For Universal Command Manager, **Agent** is used as the *<component name>* in the product license file name and as the name of the product in the file itself - see below.)

The following is a sample Universal Command Manager for z/OS product license file:

```
License_Product "AGENT"
License_Customer "STONEBRANCH"
License_OS_Type "MVS"
License_Type "PERPETUAL"
License_Expiration_Date 2029.12.31          YYYY.MM.DD
License_NT_Servers 100
License_UNIX_Servers 100
License_OS400_Servers 10000
License_OS390_Servers 10000
License_Tandem_Servers 10000
License_OS390_Unix_Servers 10000
License_Key ABCD-1234-EFGH-5678-IJKL-MNOP-9999
```

In the **UNVCONF** product library:

- Enter the Universal Command Manager license parameters into the Universal Command Manager configuration file, member **UCMCFG00**.
- Enter the Universal Connector license parameters into the Universal Connector configuration file, member **USPCFG00**.
- Enter the Universal Enterprise Controller license parameters into the Universal Enterprise Controller configuration file, member **UECCFG00**.

It is recommended that you enter license information at the end of the file. (The values are specified in the same syntax as all other configuration options.)

Restart Universal Broker

For Universal Broker to read the license information, you must stop and restart it.

Stop Universal Broker	<pre>STOP UBROKER</pre>
Start Universal Broker	<pre>START UBROKER[,UPARM='options']</pre>

Encrypting User ID and Password for Job Execution

UCMD typically requires user credentials to execute work on a remote host. The user credentials can optionally be stored in an encrypted format for privacy reasons. Read access to the file should be restricted to authorized users even though the contents are encrypted. UCMD will read user credentials in the encrypted format.

The following JCL example executes the UENCRYPT utility that encrypts command options it reads from the UNVIN ddname and writes them to the UNVOUT ddname in the form of an encrypted command file. This example creates member DALLAS in the PDS/E `PROD.UNV.USERS`. The DALLAS member will contain the user ID and password options specified in the UNVIN ddname in a UENCRYPT format.

```
//jobname JOB CLASS=A,MSGCLASS=X,NOTIFY=&SYSUID
//STEP1 EXEC PGM=UENCRYPT
//STEPLIB DD DISP=SHR,DSN=#SHLQ.UNV.SUNVLOAD
//UNVIN DD *
-USERID USR100 -PWD ABCDEF
/*
//UNVOUT DD DSN=PROD.UNV.USERS(DALLAS),DISP=SHR
//SYSPRINT DD SYSOUT=*
//SYSOUT DD SYSOUT=*
//SYSIN DD DUMMY
```

Executing a Universal Command Job

The following JCL example executes the UNIX command "ls -l" on remote host DALLAS using the encrypted command file created above.

```
//jobname JOB CLASS=A,MSGCLASS=X,NOTIFY=&SYSUID
//*
//          JCLLIB ORDER=#SHLQ.UNV.SUNVSAMP
//*
//STEP1    EXEC UCMDPRC
//USER     DD DSN=PROD.UNV.USERS(DALLAS),DISP=SHR
//SYSIN    DD *
-cmd 'ls -l' -host dallas -encryptedfile user
/*
```

Running a System Query

Use the Universal Query utility to query the Universal Broker for Broker and active component information. Universal Query returns information about the Universal Broker, as specified by configuration options, as well as information regarding the components managed by Universal Broker.

The following JCL example executes the UQUERY utility. In this example, UQUERY will query the Broker running on host DALLAS.

```
//jobname JOB CLASS=A,MSGCLASS=X,NOTIFY=&SYSUID
//*
//          JCLLIB ORDER=#SHLQ.UNV.SUNVSAMP
//*
//STEP1    EXEC UQRYPRC
//SYSIN    DD *
-host dallas
/*
```