

Installation Guide SOLA CICS Container SOLA IMS Container SOLA Development Studio Version 6.4.2



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Preface

This installation guide provides instructions for installing, configuring, and running the SOLA Development Studio on a J2EE platform (WebSphere, WebLogic or Tomcat), and installing the SOLA run-time on z/OS using SMP/E. The first half of this manual is devoted to the SMP/E installation of the run-time and the second half addresses the Development Studio installation.

Note: This manual documents the installation of multiple SOLA products. To differentiate between the two mainframe products, SOLA CICS Container (FMID: SOLA600) and SOLA IMS Container (FMID: SOLS600), each product is referenced by its FMID, so sections on the installation of SOLA CICS Container are identified SOLA600, while sections on the installation of SOLA IMS Container are identified SOLS600.

BEFORE YOU BEGIN

The SOLA 6.4 installation process includes the following mandatory pre-installation steps for *new* and *upgrade* installations:

SOLA Installation Scenario	Pre-installation Requirement		
SOLA Server	 J2EE Application Server: Before installing the SOLA Development Studio into your J2EE application server you must first install the application server. SOLA supports installation of the SOLA Development Studio in WebSphere, WebLogic or Tomcat. Next you will need to create an installation directory in the file system of J2EE server and copy the installation EAR or WAR file(whichever is appropriate) from the installation package into this directory. 		
	Note: SOLA requires a JRE (Java Runtime Environment) of 1.5 or above.		
Client Web Browser	 Cookies must be enabled in your browser settings in order to use the SOLA Development Studio 		
z/OS Server	You will need the following systems and/or subsystems installed and running on your destination machine:		
	• For SOLA CICS Container (SOLA600):		
	 G4 processor or higher for encryption (if required 		
	 DB2 version 7 or greater 		
	 MVS/ESA 430 or higher 		
	 CICS TS 1.31 or greater 		
	 CICS CWS 		
	 CICS Sockets if outbound support and/or IMS is/are required 		
	 Bridge 3270 or Linkable Bridge for 3270 support 		

SOLA Pre-installation Requirements



	MQ if MQ transport is required	
	 DB2 Version 8 or higher for UDDI inquiry & Dashboard functionality 	
	MVS FTP server must be running for the development environment	
	 Integrated Cryptographic Service Facility (ICSF) for XML Encryption, XML Signature and outbound SSL (if required) 	
	 Optional: IMS version 9 or greater, for access to IMS/TM transactions. 	
	 Optional: IMS Connect version 8 or greater and/or OTMA/CI, access to IMS/TM transactions. 	, for
◦ For SC	A IMS Container (SOLS600):	
	G4 processor or higher for encryption (if required	
	DB2 version 7 or greater	
	MVS/ESA 430 or higher	
	 DB2 Version 8 or higher for UDDI inquiry & Dashboard functionality 	
	MVS FTP server must be running for the development environment	
	Integrated Cryptographic Service Facility (ICSF) for XML Encryption, XML Signature and outbound SSL (if required)	
	IMS version 9 or greater, for access to IMS/TM transactions.	
	 IMS Connect version 8 or greater and/or OTMA/CI, for acces IMS/TM transactions. 	s to



INSTALLATION COMPONENTS

A complete SOLA installation includes a variety of different components to accommodate your SOA creation, publishing, management and monitoring needs.

The following table lists the SOLA Installation Components:

SOLA Component	Description
SOLA CICS Container (SOLA600)	The z/Series mainframe CICS run- time component. This component can be used as a backend for the SOLA Development Studio and as the SOAP runtime engine that provides SOAP capability for the z/Series mainframe.
SOLA IMS Container (SOLS600)	The z/Series mainframe Started Task Address Space run-time component. This component can be used as a backend for the SOLA Development Studio and as the SOAP runtime engine that provides SOAP capability to IMS transactions that execute on the z/Series mainframe.
SOLA Development Studio	The SOLA Development Studio is a J2EE application that runs in a J2EE compliant server. You use a browser (IE 8.0 or higher) to access the SOLA Development Studio to create, publish, manage and monitor services.
SOLA Resource Manager	The SOLA Resource manager is a J2EE application that runs in a J2EE compliant server. You use a browser (IE 8.0 or higher) to access the SOLA Resource Manager to manage SOLA resources.
SOLA IMS enablement (optional for SOLA CICS Container)	The optional SOLA for IMS component includes the ability to expose transactions and subroutines that run in IMS/TM from the SOLA CICS Container. This component requires the installation of sample and subroutine driver programs and transactions in IMS/TM.

Installation Components



OVERVIEW OF SOLA INSTALLATION PROCESS

The first step in installing SOLA is to install the SOLA run-time container on the z/Series mainframe using SMP/E. Two run-time containers are provided: SOLA CICS Container (SOLA600) and SOLA IMS Container (SOLS600). Depending on the installation you will be installing one of these runtime containers. Once the mainframe components are installed you complete the installation by customizing and running jobs from the SAMPLIB. Next you install the SOLA Development Studio into a J2EE application server, use the SOLA Development Studio to customize the SOLA installation and test the complete installation by running the sample applications included with the SOLA installation. Finally you install the SOLA Resource Manager to help you manage SOLA resources (Service Level Agreements, Policies, run-time containers, etc).

Note: The z/Series mainframe installation must be completed before starting the SOLA Development Studio installation.

IN THIS GUIDE

This guide includes the following chapters:

- **Chapter 1:** "Installing the SOLA run-time on a z/Series mainframe" provides a list of steps for installing SOLA software components onto your z/Series mainframe.
- **Chapter 2:** "Customizing the SOLA CICS Container on a z/Series mainframe" provides a list of steps for customizing SOLA CICS Container software components on your z/Series mainframe.
- **Chapter 3:** "Customizing the SOLA IMS Container on a z/Series mainframe" provides a list of steps for customizing SOLA IMS Container software components on your z/Series mainframe.
- **Chapter 4:** ""Installing the SOLA Development Studio" provides a list of steps for installing SOLA software components onto your J2EE server.

"Installing the SOLA Development Studio in WebSphere" provides a list of steps for installing SOLA software components into a WebSphere Application Server.

"Installing the SOLA Development Studio in WebLogic" provides a list of steps for installing SOLA software components into a Weblogic Application Server.

"Installing the SOLA Development Studio in Tomcat" provides a list of steps for installing SOLA software components into a Tomcat Application Server.

Chapter 5: "Customizing SOLA" provides a list of steps for installing and customizing the SOLA software components to make SOLA ready for use.



SYSTEM REQUIREMENTS

The following table lists the minimum system requirements for running SOLA 6.4.

Component Name	Requirement	
SOLA CICS Container (SOLA600)	Hardware z/Series class mac	hine gher for encryption (if required)
	<u>Operating</u> <u>System</u>	
	05/390 & Z/OS	OS/390 Version 2 Release 9 or higher OR z/OS Version 1 Release 1 or higher
	CICS	
		CICS TS 1.3 or higher
	DB2	DB2 Version 7 or higher
	CICS CWS Sockets	CICS Web Support CICS Sockets if outbound support and/or IMS is/are required
	3270	Bridge 3270 or Linkable Bridge for 3270 support
	MQ	MQ if MQ transport is required
	IMS	IMS version 9 or higher if SOA enablement of IMS transactions and/or subroutines is required
	UDDI / SOLA Dashboard	DB2 Version 8 or higher for UDDI inquiry
	Development Studio support	MVS FTP server
	Encryption	Integrated Cryptographic Service Facility (ICSF) for XML Encryption, XML Signature and outbound SSL (if required)
	Codepage Conversion	z/OS Conversion Services for conversion of Unicode
SOLA IMS Container (SOLS600)	Hardware z/Series class mac G4 processor or hi	hine gher for encryption (if required)
	Operating System	
	05/390 & Z/OS	OS/390 Version 2 Release 9 or higher OR
		z/OS Version 1 Release 1 or higher
	DB2	DB2 Version 7 or higher



Component Name	Requirement	
	IMS	IMS version 9 or higher for SOA enablement of IMS transactions and/or subroutines
	UDDI / SOLA Dashboard	DB2 Version 8 or higher for UDDI inquiry
	Development Studio support	MVS FTP server
	Encryption	Integrated Cryptographic Service Facility (ICSF) for XML Encryption, XML Signature and outbound SSL (if required)
	<i>Codepage Conversion</i>	z/OS Conversion Services for conversion of Unicode
SOLA Development Studio	Any standard J2EE Runtime Environm	environment running a JRE (Java ent) of 7 or above
SOLA Resource Manager	Any standard J2EE Runtime Environm	environment running a JRE (Java ent) of 7 or above
Client	IE 5.5 and above	
Documentation		documentation is published in Portable (PDF) and requires Acrobat Reader 5.0



CUSTOMER SUPPORT

SOA Software offers a variety of support services to our customers. The following options are available:

Support Options:	
Email (direct)	support@perforce.com
Phone	1-877-337-8776 8:00 a.m. to 8:00 p.m. (PST)
Documentation Updates	Updates to SOLA product documentation are issued periodically, and are available by submitting an email request to <u>support@perforce.com.</u> .



Chapter 1: Installing the SOLA run-time on a z/Series mainframe

INSTALLATION REQUIREMENTS AND CONSIDERATIONS

The following sections identify the system requirements for installing and activating SOLA for z/OS. The following terminology is used:

Driving system: the system used to install the program.

Target system: the system on which the program is installed.

The same system can be used as both a driving system and a target system.

DRIVING SYSTEM REQUIREMENTS

This section describes the environment of the driving system required to install SOLA for z/OS.

Machine Requirements

The driving system can run in any hardware environment that supports the required software.

Program	Product Name and
Number	Minimum VRM/Service Level
Any one of the following:	
5647-A01	OS/390 Version 2 Release 9 or higher
5694-A01	z/OS Version 1 Release 1 or higher
Any one of the following:	
5647-A01	OS/390 SMP/E Version 2 Release 9 or higher
5655-G44	SMP/E for z/OS and OS/390 Version 3 Release 1 or higher

Programming Requirements

Figure 1 Driving System Software Requirements



SOLA for z/OS uses REXX language ISPF edit macros during installation. These REXX language ISPF edit macros require OS/390 Version 2 Release 9 or higher or z/OS Version 1 Release 1 or higher.



TARGET SYSTEM REQUIREMENTS

This section describes the environment of the target system required to install and use SOLA for z/OS.

SOLA for z/OS installs in the MVS (Z038) SREL.

Machine Requirements

The target system can run in any hardware environment that supports the required software.

Programming Requirements

Mandatory Requisites

A mandatory requisite is defined as a product that is required without exception; this product either will not install or will not function unless this requisite is met. This includes products that are specified as REQs or PREs.

Program	Product Name and
Number	Minimum VRM/Service Level
Any one of the following:	
5647-A01	OS/390 Version 2 Release 9 or higher
5694-A01	z/OS Version 1 Release 1 or higher
All of the following:	
5675-DB2	IBM DB2 UDB Server for OS/390 Version 7.1 or higher
5696-234	High Level Assembler Version 1.2 or higher

Figure 2 Mandatory Requisites



Functional Requisites

A functional requisite is defined as a product that is <u>not</u> required for the successful installation of this product or for the basic function of the product, but <u>is</u> needed at run time for a specific function of this product to work.

Program Number	Product Name and Minimum VRM/Service Level	d Minimum VRM/Service Function	
5655-147	CICS TS Version 1 Release 3 or higher	SOLA CICS Container	
5647-A01	ISPF Version 4.2.1 or higher	Installation	
5647-A01	OS/390 Version 2.9 Cryptographic Services with fixes for APAR OW54083	WS-Security	
5694-A01	z/OS Communications Server Version 1 Release 5	Development Studio and Sockets	
5688-197	IBM COBOL for OS/390 and VM	COMMAREA programs	
OR			
5688-235	PL/I for MVS & VM	COMMAREA programs	
5655-F10	WebSphere MQ for z/OS	MQ transport	
5625 - DB2	IBM DB2 UDB Server for OS/390 Version 8.1 or higher	UDDI Inquiry and SOLA Dashboard	
5655-J38	IBM Information Management System (IMS), V9.1.0	SOLA IMS Container and/or IMS transactions and programs	
	IMS Connect V9	IMS transactions and programs	
	z/OS Conversion Services (part of base z/OS)	Unicode conversions	

Figure 3 Functional Requisites

Toleration/Coexistence Requisites

A toleration/coexistence requisite is defined as a product which must be present on a sharing system. These systems can be other systems in a multi-system environment (not necessarily sysplex), a shared DASD environment (such as test and production), or systems that reuse the same DASD at different time intervals.



SOLA for z/OS has no toleration/coexistence requisites.

Incompatibility (Negative) Requisites

A negative requisite identifies products which must not be installed on the same system as this product.

There are no negative requisites for SOLA for z/OS.

Installing SOLA in any program product zones will not result in overlaying listed modules.



DASD Storage Requirements

SOLA for z/OS libraries can reside on all supported DASD types.

Figure 4 lists the total space required for each type of library.

Library	
Туре	Total Space Required
Target	1,250 3390 tracks
Distribution	630 3390 tracks
Directory (DB2)	64 M Bytes (Estimated)
Statistics (DB2)	100 M Bytes (Estimated)

Figure 4 Total DASD space required by SOLA for z/OS

FMIDs Deleted

Installing SOLA for z/OS will result in the deletion of previous SOLA versions (FMIDs SOLA100 up to SOLA501).

Special Considerations

SOLA for z/OS has no special considerations for the target system.



INSTALLATION INSTRUCTIONS

This chapter describes the installation method and step-by-step procedures to install SOLA for z/OS. The next chapter describes further step-by-step procedures for customizing the functions of SOLA for z/OS.

SOLA for z/OS is distributed with the assumption that it will be installed in a separate SMP/E zone. It can be installed into an existing SMP/E zone with the restrictions described above.

When you have SMP/E installed SOLA for z/OS, refer to *Customizing the SOLA installation* on page 31 for testing and activating SOLA for z/OS.

The components of SOLA for z/OS

SOLA for z/OS comprises two products:

- SOLA CICS Container (SOLA600)
- SOLA IMS Container (SOLS600)

Each product has 'required features' and 'optional features'. These are explained here:

Required features:

SOLA CICS Container (SOLA600) Base

The base comprises all the basic functions for SOLA (the z/OS SOAP Stack). For SOLA CICS Container the base includes 3270 BMS support, COMMAREA support, Channels and Containers support, Callable support, Dynamic SQL support, DB2 Stored Procedure support and outbound support.

VSAM support has not been included in this release.

SOLA IMS Container (SOLS600) Base

The base comprises all the basic functions for SOLA (the z/OS SOAP Stack). For SOLA IMS Container the base includes IMS Transaction support, IMS Subroutine support and outbound support.

Optional Features

IMS support is an optional feature for SOLA CICS Container (SOLA600).



OVERVIEW OF SOLA FOR Z/OS INSTALLATION

This section covers the installation of SOLA CICS Container (SOLA600) and SOLA IMS Container (SOLS600), which are referred to in this section jointly as SOLA for z/OS. Begin by choosing what product(s) you're installing on z/OS, because the installation process differs slightly between SOLA CICS Container and SOLA IMS Container. The installation process for SOLA for z/OS uses the SMP/E RECEIVE, APPLY, and ACCEPT commands to place SOLA for z/OS into the appropriate system libraries. If you need more information than is given in this document, refer to a full description of SMP/E in the IBM SMP/E User's Guide and SMP/E Reference books.

SMP/E is also used to apply preventive or corrective service after SOLA for z/OS has been installed.

This section covers the following topics. You are advised to read all these sections before you start the install of SOLA for z/OS.

- Installation summary for SOLA for z/OS on page 8
- Prepare to install SOLA for z/OS on page 9
- Unzip the distribution files on page 11
- Transmit the distribution files to the mainframe on page 13

Installation summary for SOLA for z/OS

The steps for installing SOLA for z/OS are summarized below. Sample JCL is provided for all these steps except 1 and 2.

Before installing SOLA for z/OS, you must choose names and values for a number of parameters. These names and values depend on the standards that apply to your z/OS environment. You also need to decide whether you want to install any of the optional features.

Review the sample installation worksheet provided on the distribution FTP site and customize it. The names and values you have chosen above will be used to modify the required JCL.

Set up an SMP/E environment. This environment must be tailored for SOLA for z/OS.

Add DDDEF statements to the SMP/E environment to define the target and distribution libraries to SMP/E (**only if installing into existing SMP/E zone**).

- 1. Allocate the target and distribution libraries.
- 2. Unzip the distribution files on the distribution FTP site.
- 3. Transmit the distribution files to the mainframe using FTP.
- 4. Run the SMP/E RECEIVE job to unload the required features from the distribution files.
- 5. Run the SMP/E APPLY job to apply the FMIDs.



6. Run the SMP/E ACCEPT job to accept the product.

When SOLA for z/OS has been installed, use SMP/E to install preventative or corrective service if required.

Prepare to install SOLA for z/OS

Before you install SOLA for z/OS, you must make the following decisions and preparations. The decisions that you make here affect the customization of the sample JCL provided with SOLA for z/OS. You should write down the appropriate values as you work through this section. Where applicable, space has been provided to note the values assigned.

Decide which parts of SOLA for z/OS you wish to install; the parts available are described in *The components of SOLA for z/OS* on page 7.

Ensure that you have the correct prerequisite products installed. For information about prerequisite products, and the levels of these products required to install and use SOLA for z/OS, see *System Requirements* on page ix.

Plan the environment that you are going to install SOLA for z/OS into. You need to decide:

Space requirements (see "DASD Storage Requirements" on page 6)

High-level qualifiers to use (see "High-level qualifiers" on page 9)

SMP/E environment: creating a new or using an existing SMP/E environment (see "SMP/E environment" on page 9).

High-level qualifiers

You must customize the installation JCL to specify the high-level qualifiers used by SOLA for z/OS. Use the attached worksheet (WKSHEET.doc) to assist with this task and then make the changes in the SOLAEDT edit macro. Any high-level qualifiers that do not already exist must be defined to RACF or any other security product that you are using, and have ALIAS definitions in the master catalog.

SMP/E environment

You must decide whether to install SOLA for z/OS into a new or an existing SMP/E environment. Remember that installing a new release of SOLA for z/OS into the same SMP/E zones as an existing release will cause the earlier level to be deleted from both the SMP/E zones and the existing release data sets.

If you are going to install into the same SMP/E zones, preserve your current release while installing and testing the new release. You can achieve this by copying the existing release data sets into data sets with different names. Do not rename or delete the current data sets because they need to be available to SMP/E for delete processing during the installation of the new release. If they are not available, the APPLY and ACCEPT steps will fail with a return code of 12. After running a successful ACCEPT of the SOLA for z/OS products, the previous release data sets are no longer required and can be deleted when testing of the new release has been completed.



If you use existing SMP/E data sets, you need to know the names of your target zone and distribution zone, and the data set name of your global CSI.

Note: If you are installing into existing zones:

The PEMAX options entry must be at least 4500 or left to default.

The DSSPACE options entry must specify at least 100 directory blocks.

You must decide upon the names for the SMP/E zones (see WKSHEET.doc).



UNZIP THE DISTRIBUTION FILES

The root directory of the distribution package contains five directories:

	Documentation
	IDE
	PTF
	Utilities
	zSeries
T	ReadMe.txt
ព្រ	WRKSHEET IDE.doc
ß	WRKSHEET.doc

The zSeries directory contains two sub directories, one for SOLA CICS Container and the other for SOLA IMS Container. Each sub directory contains smpe.zip, which contains all the distribution files you need for SOLA's SMP/E install.

For SOLA CICS Container, unzipping the smpe.zip file will create the following files:

<pre>\$putfiles.cmd</pre>	<== windows bat file to start ftp transfer
<pre>\$putfiles.scp</pre>	<== contains ftp commands to upload files
SOLA600.F1.XMI	
SOLA600.F2.XMI	
SOLA600.F3.XMI	
SOLA600.F4.XMI	
SOLA600.F5.XMI	
SOLA600.SMPPTFIN.	KMI
SOLA600.INSTLIB.XM	II <== installation jobs
SOLA600.JCL.XMI	<== first two installation jobs+WORKSHEET
SOLA600.TXT	<== first installation job

Note: .XMI files are TSO XMITted PDS data sets.

For SOLA IMS Container, unzipping the smpe.zip file will create the following files:

<pre>\$putfiles.cmd</pre>	<== windows bat file to start ftp transfer
<pre>\$putfiles.scp</pre>	<== contains ftp commands to upload files



SOLS600.F1.XMI

SOLS600.F2.XMI

SOLS600.F3.XMI

SOLS600.F4.XMI

SOLS600.F5.XMI

SOLS600.SMPPTFIN.XMI

SOLS600.INSTLIB.XMI <== installation jobs

SOLS600.JCL.XMI <== first two installation jobs+WORKSHEET

SOLS600.TXT <== first installation job

Note: .XMI files are TSO XMITted PDS data sets.



TRANSMIT THE DISTRIBUTION FILES TO THE MAINFRAME

Transmit the distribution files to the mainframe (SOLA600)

Edit \$putfiles.cmd using Windows Notepad file editor:

The file contains a single record, as follows: ftp -v -n -i <MainFrameFTPServerName> < \$putfiles.scp

Change <*MainFrameFTPServerName*> to your mainframe ftp server FQDN. For example, if your mainframe FTP Server FQDN is MF.TESTSVR.COM then change <*MainFrameFTPServerName*> to MF.TESTSVR.COM. Make sure you remove the < and > characters. After your changes the record would be: ftp -v -n -i MF.TESTSVR.COM < \$putfiles.scp

Edit \$putfiles.scp using Windows Notepad file editor:

The file contents are shown below:

user <userName> <passWord>

type image

QUOTE SITE REC=FB LR=80 BLK=3120

- put 'SOLA600.f1.xmi' '<xmihlq>.SOLA600.f1.xmi'
- put 'SOLA600.f2.xmi' '<xmihlq>.SOLA600.f2.xmi'
- put 'SOLA600.f3.xmi' '<xmihlq>.SOLA600.f3.xmi'
- put 'SOLA600.f4.xmi' '<xmihlq>.SOLA600.f4.xmi'
- put 'SOLA600.f5.xmi' '<xmihlq>.SOLA600.f5.xmi'

put 'SOLA600.INSTLIB.xmi' '<xmihlq>.SOLA600.INSTLIB.xmi'

put 'SOLA600.JCL.xmi' '<xmihlq>.SOLA600.JCL.xmi'

put 'SOLA600.SMPPTFIN.xmi' '<xmihlq>.SOLA600.SMPPTFIN.xmi'

ASCII

QUOTE SITE REC=FB LR=80 BLK=27920

put 'SOLA600.txt' '<xmihlq>.SOLA600.txt'

Change <*userName*> & <*passWord*> to a valid RACF userid and password. These fields are not case sensitive. Make sure you remove the < and > characters.

Change all references to < xmihlq > to the transmit(xmit) high-level-qualifier that you chose (see wrksheet.doc). Make sure you remove the < and > characters.



Transfer all files from distribution package to the mainframe by executing \$putfiles.cmd or manually transmitting them.

Note: it may be beneficial to pre-allocate the datasets <*xmihlq>.SOLA600.* on the mainframe before starting the FTP.*

If you choose to manually transmit the files, you will need to:

Allocate all .XMI files with the DCB attributes of LRECL=80, BLKSIZE=3120 and transmit as binary

Allocate <*xmihlq*>.SOLA600.TXT with the DCB attributes of LRECL=80 and transmit as ASCII.

We recommend that you create an alias for the high level qualifier (hlq) for SOLA V6R0M0 installation files. This will catalog all these files in the USER ICF catalog. Customize this sample job to define such an alias:

```
//STEP010 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
//SYSOUT DD SYSOUT=*
//SYSIN DD *
DEFINE ALIAS(NAME(disthlq) -
RELATE(your.user.catalog))-
CATALOG(your.master.catalog/password)
/*
//
```

Note that "disthlq" should correspond to parameter *<disthlq>*, which will be set in the installation worksheet later.

If you choose not to create a catalog alias then select a value for < disthlq > that you have write access to.



Transmit the distribution files to the mainframe (SOLS600)

Edit \$putfiles.cmd using Windows Notepad file editor:

The file contains a single record, as follows: ftp -v -n -i <MainFrameFTPServerName> < \$putfiles.scp

Change <*MainFrameFTPServerName*> to your mainframe ftp server FQDN. For example, if your mainframe FTP Server FQDN is MF.TESTSVR.COM then change <*MainFrameFTPServerName*> to MF.TESTSVR.COM. Make sure you remove the < and > characters. After your changes the record would be: ftp -v -n -i MF.TESTSVR.COM < \$putfiles.scp

Edit \$putfiles.scp using Windows Notepad file editor:

The file contents are shown below:

user <userName> <passWord>

type image

QUOTE SITE REC=FB LR=80 BLK=3120

put 'SOLS600.f2.xmi' '<xmihlq>.SOLS600.f2.xmi'

put 'SOLS600.f3.xmi' '<xmihlq>.SOLS600.f3.xmi'

put 'SOLS600.f4.xmi' '<xmihlq>.SOLS600.f4.xmi'

put 'SOLS600.f5.xmi' '<xmihlq>.SOLS600.f5.xmi'

put 'SOLS600.INSTLIB.xmi' '<xmihlq>.SOLS600.INSTLIB.xmi'

put 'SOLS600.JCL.xmi' '<xmihlq>.SOLS600.JCL.xmi'

put 'SOLS600.SMPPTFIN.xmi' '<xmihlq>.SOLS600.SMPPTFIN.xmi'

ASCII

QUOTE SITE REC=FB LR=80 BLK=27920

put 'SOLS600.txt' '<xmihlq>.SOLS600.txt'

Change <*userName*> & <*passWord*> to a valid RACF userid and password. These fields are not case sensitive. Make sure you remove the < and > characters.

Change all references to < xmihlq > to the transmit(xmit) high-level-qualifier that you chose (see wrksheet.doc). Make sure you remove the < and > characters.

Transfer all files from distribution package to the mainframe by executing \$putfiles.cmd or manually transmitting them.



Note: it may be beneficial to pre-allocate the datasets <*xmihlq>.SOLA600.* on the mainframe before starting the FTP.*

If you choose to manually transmit the files, you will need to:

Allocate all .XMI files with the DCB attributes of LRECL=80, BLKSIZE=3120 and transmit as binary

Allocate <*xmihlq*>.SOLS600.TXT with the DCB attributes of LRECL=80 and transmit as ASCII.

We recommend that you create an alias for the high level qualifier (hlq) for SOLA SOLS600 installation files. This will catalog all these files in the USER ICF catalog. Customize this sample job to define such an alias:

```
//STEP010 EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
//SYSOUT DD SYSOUT=*
//SYSIN DD *
DEFINE ALIAS(NAME(disthlq) -
RELATE(your.user.catalog))-
CATALOG(your.master.catalog/password)
/*
//
```

Note that "disthlq" should correspond to parameter *<disthlq>*, which will be set in the installation worksheet later.

If you choose not to create a catalog alias then select a value for < disthlq > that you have write access to.



CREATE THE INSTALL LIBRARY

Create the install library (SOLA600)

Customize SOLA600.TXT. This job will TSO RECEIVE <*xmihlq*>.SOLA600.JCL.XMI and create the installation library <*disthlq*>.SOLA600.JCL.

<disthlq>.SOLA600.JCL will contain these members:

DEFALIAS - optional job to define ALIAS for <*disthlq*> (used only if distribution files are to be cataloged outside of the MASTER CATALOG)

TSORECVE - TSO RECEIVE job - a job to unpack the XMITted distribution files.

WRKSHEET - a list of parameters to be customized to your installation standards.

Create the install library (SOLS600)

Customize SOLS600.TXT. This job will TSO RECEIVE <*xmihlq*>.SOLS600.JCL.XMI and create the installation library <*disthlq*>.SOLS600.JCL.

<disthlq>.SOLS600.JCL will contain these members:

DEFALIAS - optional job to define ALIAS for <*disthlq*> (used only if distribution files are to be cataloged outside of the MASTER CATALOG)

TSORECVE - TSO RECEIVE job - a job to unpack the XMITted distribution files.

WRKSHEET - a list of parameters to be customized to your installation standards.



CUSTOMIZE WRKSHEET FOR YOUR ENVIRONMENT

Customize WRKSHEET for your environment (SOLA600)

Review and customize WRKSHEET in *<disthlq>*.SOLA600.JCL to comply with your installation standards.

Parameter Name in the sample WRKSHEET			
provided	Description	Notes/Examples	Your Values
<jobcrd0></jobcrd0>	Job card information (1st line)		
<jobcrd1></jobcrd1>	Job card information (2nd line)		
<smpehlq></smpehlq>	SMP/E high level qualifier	"SOLA.GLOBAL" will result in "SOLA.GLOBAL.CSI"	
<smptzhlq></smptzhlq>	SMP/E target zone high level qualifier	"SOLA.SOLA600.TZN" will result in "SOLA.SOLA600.TZN.CSI"	
<smpdzhlq></smpdzhlq>	SMP/E distribution zone high level qualifier	"SOLA.SOLA600.DZN" will result in "SOLA.SOLA600.DZN.CSI"	
<xmihlq></xmihlq>	SMP/E xmit high level qualifier	"SOLAXMI" will result in "SOLAXMI.SOLA600.F1.XMI" etc.	
<disthlq></disthlq>	Temporary distribution high level qualifier (used by TSO RECEIVE)	Must be a single hlq. Cannot be a compound hlq (for example SYSE.SOLA is not allowed by SMP/E). "SOLA" will result in "SOLA.SOLA600.F1"	
<tlibhlq></tlibhlq>	Target library high level qualifier	"SOLA.V6R0M1" will result in "SOLA.V6R0M1.LOADLIB"	
<dlibhlq></dlibhlq>	Distribution library high level qualifier	SOLA.V6R0M1 will result in "SOLA.V6R0M1.AMODLIB"	
<tlibvol></tlibvol>	Target library VOLSER	SOAP00	
<dlibvol></dlibvol>	Distribution library VOLSER	SOAP00	
<smpevol></smpevol>	SMP/E library VOLSER	SOAP00	
<smptlbpr></smptlbpr>	SMP/E Rel Files prefix	SOLA.SMPTLIB will result in "SOLA.SMPTLIB.SOLA600.F1"	
<dclas></dclas>	Data class (optional)	Optional	
<mclas></mclas>	Management class (optional)	Optional	
<sclas></sclas>	Storage class (optional)	Optional	
<tgtdblks></tgtdblks>	FB datasets blksize	27920	
<diskunit></diskunit>	Disk unit name	SYSDA	



Parameter Name in			
the sample			
WRKSHEET			
provided	Description	Notes/Examples	Your Values
<smpetlib></smpetlib>	SMP/E Target Zone	SOLATGT	
	name		
<smpedlib></smpedlib>	SMP/E Distribution	SOLADIS	
	Zone name		
<sceelked.dsnm></sceelked.dsnm>	LE library	SYS1.SCEELKED	
<sezatcp.dsnm></sezatcp.dsnm>	TCP/IP library	SYS1.SEZATCP	
<scsfmod0.dsnm></scsfmod0.dsnm>	ICSF library	SYS1.SCSFMOD0	
<csslibdsnm></csslibdsnm>	CSS Library	SYS1.CSSLIB	
<db2sdsnload></db2sdsnload>	DB2 SDSNLOAD	SYSAPF.DBMS.DB2GR0Q.SDSNL	
	Library	OAD	
<db2runload></db2runload>	DB2 Run load module library	DB2GR0Q.RUNLIB.LOAD	
<subsystem></subsystem>	DB2 Subsystem	GR0O	
		~	
<collection></collection>	DB2 Package	XML	
	collection		
<plan></plan>	DB2 PLAN name	XMLPLAN	
<qualifier></qualifier>	DB2 Qualifier	SOLA600	
<oldqualifier></oldqualifier>	SOLA 5.1 Qualifier	SOLAQUAL	
	(Migration Only)		
<indexbp></indexbp>	DB2 Index Buffer	BP3	
<tablebp></tablebp>	Pool DB2 Tablespace	BP2	
	BufferPool	D1 2	
<bp32k2></bp32k2>	DB2 32K BufferPool	BP32K2	
<stogroup></stogroup>	DB2 Stogroup	SGXMLSMS	
<vcat></vcat>	DB2 VCAT (used to	SOLA	
(VCut)	create stogroup)		
<group></group>	RDO Group name	SOLAGRP	
list>	List name	SOLA	
<cicsload></cicsload>	CICS LOAD library	CICS.TEST.WQ62.SDFHLOAD	
	(SOLA CICS		
<csdfile></csdfile>	Container only) CICS CSD File	TVWQCICS.CICSTS22.DFHCSD	
<csurile></csurile>	(SOLA CICS	TVWQCIC5.CIC51522.DITIC5D	
	Container only)		
<vsamumt></vsamumt>	UMT VSAM File	SOLA.VSAM.MONTR.QCICST	
	name (used by SOLA		
	CICS Container only)		
<vsamcmt></vsamcmt>	CMT VSAM File	SOLA.VSAM.MAPPING.QCICST	
	(used by SOLA CICS		
	Container for		
	Identity mapping)		
<vol></vol>	Volume where	SOAP00	
	VSAM file will be		
	allocated		<u> </u>



Customize WRKSHEET for your environment (SOLS600)

Review and customize WRKSHEET in *<disthlq>*.SOLS600.JCL to comply with your installation standards.

Parameter Name in			
the sample			
WRKSHEET provided	Description	Notes/Examples	Your Values
<jobcrd0></jobcrd0>	Job card information	Notes/Examples	Tour values
-100 crub	(1st line)		
<jobcrd1></jobcrd1>	Job card information		
	(2nd line)		
<smpehlq></smpehlq>	SMP/E high level	"SOLA.GLOBAL" will result in	
	qualifier	"SOLA.GLOBAL.CSI"	
<smptzhlq></smptzhlq>	SMP/E target zone	"SOLA.SOLS600.TZN" will result in	
	high level qualifier	"SOLA.SOLS600.TZN.CSI"	
<smpdzhlq></smpdzhlq>	SMP/E distribution	"SOLA.SOLS600.DZN" will result	
	zone high level	in "SOLA.SOLS600.DZN.CSI"	
	qualifier		
<xmihlq></xmihlq>	SMP/E xmit high	"SOLAXMI" will result in	
	level qualifier	"SOLAXMI.SOLS600.F1.XMI" etc.	
<disthlq></disthlq>	Temporary	Must be a single hlq. Cannot be a	
	distribution high	compound hlq (for example	
	level qualifier (used	SYSE.SOLA is not allowed by	
	by TSO RECEIVE)	SMP/E).	
		"SOLA" will result in	
		"SOLA.SOLS600.F1"	
<tlibhlq></tlibhlq>	Target library high	"SOLA.SOLS600" will result in	
	level qualifier	"SOLA.SOLS600.LOADLIB"	
<dlibhlq></dlibhlq>	Distribution library	SOLA.SOLS600 will result in	
-	high level qualifier	"SOLA.SOLS600.AMODLIB"	
<tlibvol></tlibvol>	Target library	SOAP00	
	VOLSER		
<dlibvol></dlibvol>	Distribution library	SOAP00	
<smpevol></smpevol>	VOLSER SMP/E library	SOAP00	
<smpevoi></smpevoi>	VOLSER	50AI 00	
<smptlbpr></smptlbpr>	SMP/E Rel Files	SOLA.SMPTLIB will result in	
	prefix	"SOLA.SMPTLIB.SOLS600.F1"	
<dclas></dclas>	Data class (optional)	Optional	
<mclas></mclas>	Management class	Optional	
	(optional)	-	
<sclas></sclas>	Storage class	Optional	
<tgtdblks></tgtdblks>	(optional) FB datasets blksize	27920	
<diskunit></diskunit>	Disk unit name	SYSDA	
<smpetlib></smpetlib>	SMP/E Target Zone name	SOLATGT	
	name		



Parameter Name in			
the sample WRKSHEET			
provided	Description	Notes/Examples	Your Values
<smpedlib></smpedlib>	SMP/E Distribution	SOLADIS	
<sceelked.dsnm></sceelked.dsnm>	Zone name LE library	SYS1.SCEELKED	
<sezatcp.dsnm></sezatcp.dsnm>	TCP/IP library	SYS1.SEZATCP	
<scsfmod0.dsnm></scsfmod0.dsnm>	ICSF library	SYS1.SCSFMOD0	
<csslibdsnm></csslibdsnm>	CSS Library	SYS1.CSSLIB	
<db2sdsnload></db2sdsnload>	DB2 SDSNLOAD Library	SYSAPF.DBMS.DB2GR0Q.SDSNL OAD	
<db2runload></db2runload>	DB2 Run load module library	DB2GR0Q.RUNLIB.LOAD	
<subsystem></subsystem>	DB2 Subsystem	GR0Q	
<collection></collection>	DB2 Package collection	XML	
<plan></plan>	DB2 PLAN name	XMLPLAN	
<qualifier></qualifier>	DB2 Qualifier	SOLA600	
<oldqualifier></oldqualifier>	SOLA 5.1 Qualifier (Migration Only)	SOLAQUAL	
<indexbp></indexbp>	DB2 Index Buffer Pool	BP3	
<tablebp></tablebp>	DB2 Tablespace BufferPool	BP2	
<bp32k2></bp32k2>	DB2 32K BufferPool	BP32K2	
<stogroup></stogroup>	DB2 Stogroup	SGXMLSMS	
<vcat></vcat>	DB2 VCAT (used to create stogroup)	SOLA	
<tcpaddressspace></tcpaddressspace>	TCPIP jobname	ТСРІР	
<tcpport></tcpport>	TCPIP Port Number (SOLA Started Task Listener Port). 5 digit number prefixed with Zeroes	03800	
<solasysid></solasysid>	4 Character SYSID for the SOLA Started task	SOL1 Must be unique within a Sysplex	
<qmgr></qmgr>	4 Character MQ Subsystem ID	CSQ7	
<mqrequestq></mqrequestq>	Max 48 Character SOLA Request Queue	SOLA.REQUEST.QUEUE	



RECEIVE THE DISTRIBUTION FILES

Receive the distribution files (SOLA600)

Customize the JOBCARD, *<disthlq>* and *<xmihlq>* parms in the *<xmihlq>*.SOLA600.txt dataset and submit the job.

This will receive the following datasets:

<disthlq>.SOLA600.JCL

Inside this dataset will be a member named TSORECVE. This job will TSO RECEIVE the distribution files. Customize this JCL to receive the remaining distribution files.

The following datasets will be created:

<disthlq>.SOLA600.F1 <disthlq>.SOLA600.F2 <disthlq>.SOLA600.F3 <disthlq>.SOLA600.F4 <disthlq>.SOLA600.F5 <disthlq>.SOLA600.SMPPTFIN <disthlq>.SOLA600.INSTLIB



Receive the distribution files (SOLS600)

Customize the JOBCARD, *<disthlq>* and *<xmihlq>* parms in the *<xmihlq>*.SOLS600.txt dataset and submit the job.

This will receive the following datasets:

<disthlq>.SOLS600.JCL

Inside this dataset will be a member named TSORECVE. This job will TSO RECEIVE the distribution files. Customize this JCL to receive the remaining distribution files.

The following datasets will be created:

<disthlq>.SOLS600.F1 <disthlq>.SOLS600.F2 <disthlq>.SOLS600.F3 <disthlq>.SOLS600.F4 <disthlq>.SOLS600.F5 <disthlq>.SOLS600.SMPPTFIN <disthlq>.SOLS600.INSTLIB



CUSTOMIZE THE SAMPLE INSTALLATION JCL

Customize the sample installation JCL (SOLA600)

Editing the SOLAEDT macro

Customize SOLAEDT in *<disthlq>*.SOLA600.INSTLIB with values from the WRKSHEET created in Customize WRKSHEET for your environment (SOLA600)on page 18. SOLAEDT is a Rexx Exec. Ensure that single quotes (' ') and double quotes (" ") are not altered.

Adding the edit macro SOLAEDT to the sysproc concatenation

SOLAEDT is a Rexx Exec. Rexx Execs can excute from either SYSPROC or SYSEXEC. Copy SOLAEDT to a dataset in your SYSPROC or SYSEXEC concatenation.

To find out what datasets are allocated to SYSPROC or SYSEXEC for your TSO session you can issue the TSO ISRDDN command from the ISPF command line and then find SYSPROC or SYSEXEC in the DDname column. Choose a dataset that you are authorized to write to and copy SOLAEDT from *<disthlq>*.SOLA600.INSTLIB into that dataset.

Executing the SOLAEDT macro

Customize *<disthlq>*.SOLA600.SMPPTFIN(SOLA600) by executing the SOLAEDT edit macro.

SOLAEDT is executed by typing SOLAEDT on the command line while you are editing a dataset with ISPF edit. For example, to customize the dataset <*disthlq*>.SOLA600.SMPPTFIN(SOLA600) you would type SOLAEDT on the command line while editing *<disthlq*>.SOLA600.SMPPTFIN(SOLA600) using ISPF edit.

The following jobs in *<disthlq>*.SOLA600.INSTLIB can be customized by executing the SOLAEDT edit macro while in ISPF edit.

SMPECSI

SMPALLOC

RECVFUNC

APPLFUNC

ACCPFUNC

SOLAEDT will fill in any user defined values as defined in WRKSHEET specified in Transmit the distribution files to the mainframe (SOLA600)on page 13.


Customize the sample installation JCL (SOLS600)

Editing the SOLAEDT macro

Customize SOLAEDT in *<disthlq>*.SOLS600.INSTLIB with values from the WRKSHEET created in Customize WRKSHEET for your environment (SOLS600) on page 20. SOLAEDT is a Rexx Exec. Ensure that single quotes (' ') and double quotes (" ") are not altered.

Adding the edit macro SOLAEDT to the sysproc concatenation

SOLAEDT is a Rexx Exec. Rexx Execs can excute from either SYSPROC or SYSEXEC. Copy SOLAEDT to a dataset in your SYSPROC or SYSEXEC concatenation.

To find out what datasets are allocated to SYSPROC or SYSEXEC for your TSO session you can issue the TSO ISRDDN command from the ISPF command line and then find SYSPROC or SYSEXEC in the DDname column. Choose a dataset that you are authorized to write to and copy SOLAEDT from *<disthlq>*.SOLS600.INSTLIB into that dataset.

Executing the SOLAEDT macro

Customize <*disthlq*>.SOLS600.SMPPTFIN(SOLS600) by executing the SOLAEDT edit macro.

SOLAEDT is executed by typing SOLAEDT on the command line while you are editing a dataset with ISPF edit. For example, to customize the dataset <*disthlq*>.SOLS600.SMPPTFIN(SOLS600) you would type SOLAEDT on the command line while editing *<disthlq*>.SOLS600.SMPPTFIN(SOLS600) using ISPF edit.

The following jobs in *<disthlq>*.SOLS600.INSTLIB can be customized by executing the SOLAEDT edit macro while in ISPF edit.

SMPECSI

SMPECSI1

SMPALLOC

SMPALLC1

RECVFUNC

APPLFUNC

ACCPFUNC

SOLAEDT will fill in any user defined values as defined in WRKSHEET specified in Customize WRKSHEET for your environment (SOLS600)on page 20.



USE SMP/E TO INSTALL SOLA FOR Z/OS

Use SMP/E to Install SOLA CICS Container (SOLA600)

Installing into your SMP/E Environment

Run all jobs in *<disthlq>*.SOLA600.INSTLIB in the following order:

Job	Description
SMPECSI	to create the SMP/E database for SOLA software
SMPALLOC	to create target and distribution SMP/E files
RECVFUNC	to SMP/E RECEIVE function SOLA600 (SOLA V6R0M0) into your GLOBAL zone. Expect RC=0
APPLFUNC	to SMP/E APPLY CHECK SOLA function. Remove CHECK keyword if satisfied with APPLY CHECK processing in order to update your libraries. Expect RC=0
ACCPFUNC	to SMP/E ACCEPT CHECK SOLA function. Remove CHECK keyword if satisfied with ACCEPT CHECK processing in order to update your libraries. Expect RC=0

Installing Additional SMP/E Maintenance

SOLA is distributed with preventive or corrective maintenance which has been developed after base function packaging. This maintenance is distributed in *<disthlq>*.SOLA600.SMPPTFIN. We strongly recommend implementing this additional maintenance. Your distribution package will contain the following two JCLs: "Receive ALL PTFs.txt" and "Apply All PTFs.txt". Customize these two JCLs using SOLAEDT Macro and submit them to receive and apply all of the PTFs.

SOLA600 PTFs follow this naming convention:

SFXyxxx

Where y is the SOLA version number and xxx is the PTF number, for example, SFX6001 is SOLA CICS Container v6 PTF number 1.

You may reference the *<disthlq>*.SOLA600.SMPPTFIN data set and read the technical description of each PTF to decide if the particular PTF is applicable to your environment.



Receiving Additional SMP/E Maintenance

RECVPTF in *<disthlq>*.SOLA600.INSTLIB is provided to SMP/E receive any additional/future preventative maintenance distributed with the base function. Customize this job by executing the SOLAEDT macro while in ISPF edit mode.

Applying Additional SMP/E Maintenance

APPLYPTF in *<disthlq>*.SOLA600.INSTLIB is provided to apply any additional/future preventative or corrective maintenance.

This job will SMP/E APPLY CHECK any maintenance to the SOLA function. Remove the CHECK keyword if you're satisfied with APPLY CHECK processing in order to update your libraries.



Use SMP/E to Install SOLA IMS Container (SOLS600)

Installing into your SMP/E Environment

Run all jobs in *<disthlq>*.SOLS600.INSTLIB in the following order:

Job	Description
SMPECSI	Create the SMP/E database for SOLA
(or)	software in a dedicated SMP/e Env
SMPECSI1	If your site has already installed SOLA CICS Container and you want to install SOLA IMS Container in the same Global zone then use this JCL to alter the SMPE Database for SOLA IMS Container
SMPALLOC	Create target and distribution SMP/E files in a dedicated SMP/e Env
(or)	,
SMPALLC1	If your site has already installed SOLA CICS Container and you want to install SOLA IMS Container in the same Global zone then use this JCL to allocate the new SOLA IMS Container target/distribution libraries
RECVFUNC	SMP/E RECEIVE function SOLS600 (SOLA SOLS600) into your GLOBAL zone. Expect RC=0
APPLFUNC	MP/E APPLY CHECK SOLA function. Remove CHECK keyword if satisfied with APPLY CHECK processing in order to update your libraries. Expect RC=4
ACCPFUNC	SMP/E ACCEPT CHECK SOLA function. Remove CHECK keyword if satisfied with ACCEPT CHECK processing in order to update your libraries. Expect RC=0

Installing Additional SMP/E Maintenance

SOLA is distributed with preventive or corrective maintenance which has been developed after base function packaging. This maintenance is distributed in *<disthlq>*.SOLS600.SMPPTFIN. We strongly recommend implementing this additional maintenance. Your distribution package will contain the following two JCLs: "Receive ALL PTFs.txt" and "Apply All PTFs.txt". Customize these two JCLs using SOLAEDT Macro and submit them to receive and apply all of the PTFs.

SOLS600 PTFs follow this naming convention:

SFSyxxx

Where y is the SOLA version number and xxx is the PTF number, for example, SFS6001 is SOLA IMS Container v6 PTF number 1.

You may reference the *<disthlq>*.SOLS600.SMPPTFIN data set and read the technical description of each PTF to decide if the particular PTF is applicable to your environment.

Receiving Additional SMP/E Maintenance

RECVPTF in *<disthlq>*.SOLS600.INSTLIB is provided to SMP/E receive any additional/future preventative maintenance distributed with the base function. Customize this job by executing the SOLAEDT macro while in ISPF edit mode.

Applying Additional SMP/E Maintenance

APPLYPTF in *<disthlq>*.SOLS600.INSTLIB is provided to apply any additional/future preventative or corrective maintenance.

This job will SMP/E APPLY CHECK any maintenance to the SOLA function. Remove the CHECK keyword if you're satisfied with APPLY CHECK processing in order to update your libraries.



Chapter 2: Customizing SOLA CICS Container on a z/Series mainframe (SOLA600)

CUSTOMIZING THE SOLA INSTALLATION

The following sections describe the steps necessary to customize the sample members and jobs in the <*tlibhlq*>.SAMPLIB and then run those jobs to:

- Customize the SAMPLIB
- Run jobs in SAMPLIB to:
 - Create the SOLA DB2 database
 - \circ $\;$ Bind the plan and all of the packages in the SOLA collection
 - Create the VSAM file used by the SOLA logger
 - \circ $\;$ Define the CICS table entries in the CICS CSD.
 - Optional: Define the CICS Analyzer to use with SOLA. This is only needed if you have a special security requirement (more details later in this section).
 - Optional: If you are upgrading from SOLA 5.1 then you will need to refer to the SOLA 6.1 Migration Guide for help in migrating the SOLA 5.1 Directory to the new SOLA 6.1 Directory.

CUSTOMIZING THE <TLIBHLQ>.SAMPLIB

Refer to the #README member of *<tlibhlq>*.SAMPLIB.

Run the SOLAEDT macro on the following members of *<tlibhlq*>.SAMPLIB:

Member	Description
BIND, BIND1	Plan and Package bind commands
BINDMIG	Package bind commands for SOLA5.1->SOLA6.1 Migration Programs. Not required for new installations.



Member	Description
BINDJCL	JCL to bind the plan and packages
BINDJCLM	JCL to bind SOLA5.1->SOLA6.1 Migration packages. Not required for new installations.
CSD, CSD1, CSD2	SOLA CICS Container only. PPT, PCT, FCT, TDQ and RCT/DB2 Entry definitions for SOLA executables
CSDJCL	SOLA CICS Container only. JCL to define the CSD entries
DCL	DB2 Grant statements
DDL	DDL to create the DB2 STOGROUP (optional), database, tablespaces, tables, indexes and aliases.
DDLMIG	DDL to create SOLA5.1 table aliases that is used for SOLA5.1->SOLA6.1 migration. Not required for new installations.
DDLJCL	JCL to create the DB2 entries
DDLJCLM	JCL to create SOLA5.1 table alias entries for SOLA5.1->SOLA6.1 migration. Not required for new installations.
IDCAMJCL	SOLA CICS Container only. JCL to define the VSAM files used by the SOLA logger & identity mapping functionality.
IMAPLOAD	Job to populate table TBXMLMFD for identity mapping.
IMSGEN	Macro instructions to define the IMS subroutine driver and sample transactions.
PSBGEN	Macro instructions to define the PSBs for the subroutine driver programs and the sample program.

CREATING THE DATABASE WITH DDLJCL

You create the SOLA directory by running the job DDLJCL. This job requires DB2 database privileges and may need to be run by a DBA. In order to successfully run the job you must have appropriate DB2 authority to create a STOGROUP (optional), a DATABASE (DBXML002), TABLESPACE, TABLE, INDEX and ALIAS.

The SOLA directory is defined in a single database DBXML002. You can create this database in its own STOGROUP or you can use an existing STOGROUP. If you want to



use a STOGROUP specifically for DBXML002 then uncomment the "CREATE STOGROUP" statement at the beginning of member DDL.

The SOLA Database DBXML002 consists of at least 28 tables. Each table is created in its own unique tablespace. There are at least 47 indexes. At least 28 ALIASes are defined.

Job DDLJCL should execute with a return code of zero.

BINDING THE PLAN AND PACKAGES WITH BINDJCL

You bind the SOLA packages and plan by running jobs BINDJCL.

The person running these jobs must have appropriate authority to select, update, insert and delete the tables in the DBXML002 database.

There are at least 20 package bind cards in member BIND. All of these packages are bound into a single collection *<collection>*. There is a single plan bind statement for plan *<plan>* in member BIND1 which includes all packages in PKLIST *<collection>*.

Job BINDJCL should execute with a return code of zero.

CREATING THE <VSAMUMT> AND <VSAMCMT> FILES WITH IDCAMJCL

SOLA CICS Container uses CICS Data Tables for caching; a User Maintained Data Table (UMT) and a CICS Maintained Data Table (CMT). You define the UMT and CMT by running job IDCAMJCL.

The UMT is used to buffer all of the execution statistics collected by the SOLA run-time engine. These statistics are flushed from the *<vsamUMT>* file by a background task that periodically reads from the file and copies the data to a DB2 table *<qualifier>*.TBXMLMON.

The CMT is used to store the User Identity mapping data from the database to be used by the SOLA Analyzer (runtime component). A background task periodically checks updates to the mapping data in the database and reflects the changes to the CMT.

Job IDCAMJCL should execute with a return code of zero.

Note: Each TOR/WOR region with a SOLA runtime should have a dedicated XMLKSMAP CMT VSAM file. Sharing of the XMLKSMAP VSAM file is not supported.



POPULATE THE IDENTITY MAPPING TABLE USING JOB IMAPLOAD

Use job IMAPLOAD to populate table TBXMLMFD. The following are the details of the data stored in TBXMLMFD:

- TOR_SYS_ID: char(4), SYSID of WOR region.
- ID_MAP_TYP: char(1), type of mapping , value 'O' is for identity mapping.
- SUBJECT_ID: varchar(255), subject ID.
- RACF_USR_ID: char(8), RACF mainframe user id.
- TRN_ID: transid , optional, to override XML transaction.
- TMPLT_ID: template Id, optional, to override identity mapping template XML#DAN, for future use.
- DEPLOY_TS: when this entry was created in the table.

DEFINE THE CICS CSD ENTRIES WITH CSDJCL

You create the SOLA CICS CSD entries by running job CSDJCL.

Because SOLA CICS Container executes in a CICS region it requires CICS table entries (PCT, PPT, TDQ, RCT and FCT). The CICS CSD entries are shipped with default entries and should be customized based on your setup. All PCT definitions are delivered in samplib member CSD1 with default TRANCLASS(DFHTCL00). This needs to be customized based on your installation standards. The job CSDJCL creates these entries.

Jobs CSDJCL should execute with a return code of zero.

DEFINE THE CICS ANALYZER TO USE WITH SOLA (OPTIONAL)

By default SOLA CICS Container runs with the default CICS Analyzer DFHWBADX. With this analyzer, which runs under transaction CWXN, it isn't possible to run your user transactions under a SAF ID (such as RACF, ACF2 or Top-Secret controlled Ids).

For security reasons the SOLA Development Studio uses the WS-Security specification to pass user credentials between the Development Studio and the SOLA CICS Container back-end. In order to run the back-end transactions under the SAF ID that's passed up in the SOAP message then you will need to use the SOLA XMLPCAN Analyzer, as detailed below:

XMLPCAN: Will run the user transaction under the SAF ID that is passed in the WS-Security Header.

In order to use this special purpose analyzer, you need to alter your TCPIPS definition on CICS as follows (This can be done by a CICS administrator with CEDA access to the region).

ALTER TCPIPS(<name>) G(<groupName>) URM(XMLPCAN)



In order to create a new TCPIPS definition the following command is used.

DEFINE TCPIPS(<name>) G(<groupName>) URM(XMLPCAN) PORTNUMBER(nnnn) PROTOCOL() - IIOP, HTTP, ECI

TRANSACTION(CWXN) TSQPREFIX(xxxxxx)

SSL() AUTHENTICATE()

Note: This customization is optional and if your installation doesn't enforce that transactions must run with appropriate SAF Id, it is not needed.

TCPIPS DEFINITION

If you're planning to run SOLA CICS Container with CICS TS 3.1 or above, there's a modification to the TCPIPS definition that you'll need to make to allow SOLA to communicate properly with CICS. Use the CEDA transaction (or equivalent) to update the field MAXDATALEN to a value greater than or equal to 4096 (the number is specified in kilobytes). MAXDATALEN specifies the maximum length of data that may be received by the TCP/IP service, and SOLA 6.1 increases the size of the messages that it can communicate.

Here is an example of a MAXDATALEN set to 5032 kilobytes.

```
I TCPIPS
STATUS: RESULTS - OVERTYPE TO MODIFY
Tcpips(TOREXT ) Ope Por(01743) Http Ssl Tra(CWXN)
Con(00000) Bac( 00005 ) Max( 005032 ) Urm( XMLPCAN ) Sup
```

RACF AUTHORIZING THE SOLA TRANSACTIONS (OPTIONAL)

If your environment requires transactions to run authorized by RACF (or similar facility), and those transactions must be run under the RACF ID of the user, then you will need to use the XMPLCAN analyzer, as defined in section "Define the CICS Analyzer to use with SOLA (Optional)" on page 34. This will run SOLA's main transaction (by default this is transaction XML) under the RACF ID that was extracted from the WS-Security header by XMLPCAN.

This is the list of transactions used by SOLA that will need to be RACF authorized:

- XML: A requestor's RACF ID will need to be authorized to run this transaction.
- XML3: SOLA's runtime UDDI interface. Because of the open nature of the UDDI interface this transaction can't run under the RACF ID of the requestor.
- XML8: SOLA's background task to spool metrics information from the CICS metrics UMT to a DB2 table.
- XML5, XML7 and XML9: These transactions are used when SOAP requests and responses are carried by MQ.



DEFINING IMS COMPONENTS (OPTIONAL)

SOLA CICS Container includes the optional ability to invoke IMS-TM transactions and subroutines as reusable web services. You will need to use your standard IMS procedures to define the transaction and PSB that SOLA uses to invoke IMS subroutines. No IMS transactions or PSBs are required to use SOLA with IMS transactions, but they are required if you wish to use the sample transactions. The IMS macro instructions are contained in members IMSGEN (to define the IMS subroutine driver and sample transactions) and PSBGEN (to define the PSBs for the subroutine driver programs and the define the sample program). The definitions for the sample program and transaction are required for installation verification.

SETTING UP THE IMS MESSAGE PROCESSING REGION (OPTIONAL)

Before you can use SOLA to invoke IMS transactions and subroutines you will need to add the SOLA Runtime Library to the STEPLIB concatenation of the IMS Message Processing Region (MPR).

POPULATING DATA FOR SAMPLE APPLICATION (RECOMMENDED)

The SOLA CICS Container package includes a sample application that is used to debug and verify the installation. In order to run this application the SAMPLIB contains two members that are used to populate the DB2 tables used by the sample application. The tables are created as a part of the customization. Members INSWGT and INSRTUAP in the SAMPLIB dataset contain the SQL to insert this data and it can be done using SPUFI or any other facility.

MIGRATION TO SOLA6.1 FROM SOLA5.1 (OPTIONAL)

Customers who already have SOLA5.1 should refer to the SOLA 6.1 Migration Guide, which documents the following process for data migration. The steps involved are:

- Customize the migration jobs, etc with SOLAEDT
- Run the job DDLJCLM to create alias entries for SOLA5.1 tables. This job requires DB2 database privileges and may need to be run by a DBA.
- Bind the SOLA Migration Program packages by running job BINDJCLM
- Run the migration Jobs in the following sequence**



Job	Description	MAX RC
MIGJOB1	Verify SOLA5.1 Directory to check if there are any	4
	potential migration issues	
MIGJOB2	Prepare SOLA6.1 Directory for a clean migration	4
	from SOLA5.1 Directory	
MIGJOB3	Migrates SOLA Directory – Project, Program and	4
	related data	
MIGJOB4	Migrates SOLA Directory – User, Access related	4
	data	
MIGJOB5	Migrates SOLA Directory – All other data	4

** The migration process can be repeated by repeating the above jobs starting from MIGJOB1

If you are a SOLA 6.0 test customer and you've already installed the SOLA 6.1 Server, then you will need to restart the SOLA 6.1 Server after the migration batch jobs have completed.



Chapter 3: Customizing SOLA IMS Container on a z/Series mainframe (SOLS600)

CUSTOMIZING THE SOLA INSTALLATION

The following sections describe the steps necessary to customize the sample members and jobs in the <*tlibhlq*>.SAMPLIB and then run those jobs to:

- Customize the SAMPLIB
- Run jobs in SAMPLIB to:
 - Create the SOLA DB2 database
 - \circ $\;$ Bind the plan and all of the packages in the SOLA collection

CUSTOMIZING THE <TLIBHLQ>.SAMPLIB

Refer to the #README member of *<tlibhlq>*.SAMPLIB.

Run the SOLAEDT macro on the following members of *<tlibhlq>*.SAMPLIB:

Member	Description
BIND, BIND1	Plan and Package bind commands
BINDJCL	JCL to bind the plan and packages
DCL	DB2 Grant statements
DDL	DDL to create the DB2 STOGROUP (optional), database, tablespaces, tables, indexes and aliases.
DDLJCL	JCL to create the DB2 entries
IMSGEN	Macro instructions to define the IMS subroutine driver and sample transactions.
PSBGEN	Macro instructions to define the PSBs for the subroutine driver programs and the sample program.



Member	Description
SOLA	This is a SOLA HTTP Started Task Job Sample.
	Customize this JCL and copy to your started task library
SOLAPRM	This is a SOLA HTTP Started Task Job Parms
	Customize this parmlib and copy to your parm library
SOLAMQ	This is a SOLA MQ Started Task Job Sample.
	Customize this JCL and copy to your started task library
SOLAMQPR	This is a SOLA HTTP Started Task Job Parms
	Customize this parmlib and copy to your parm library

CREATING THE DATABASE WITH DDLJCL

You create the SOLA directory by running the job DDLJCL. This job requires DB2 database privileges and may need to be run by a DBA. In order to successfully run the job you must have appropriate DB2 authority to create a STOGROUP (optional), a DATABASE (DBXML002), TABLESPACE, TABLE, INDEX and ALIAS.

The SOLA directory is defined in a single database DBXML002. You can create this database in its own STOGROUP or you can use an existing STOGROUP. If you want to use a STOGROUP specifically for DBXML002 then uncomment the "CREATE STOGROUP" statement at the beginning of member DDL.

The SOLA Database DBXML002 consists of at least 28 tables. Each table is created in its own unique tablespace. There are at least 47 indexes. At least 28 ALIASes are defined.

Job DDLJCL should execute with a return code of zero.

BINDING THE PLAN AND PACKAGES WITH BINDJCL

You bind the SOLA packages and plan by running jobs BINDJCL.

The person running these jobs must have appropriate authority to select, update, insert and delete the tables in the DBXML002 database.

There are at least 28 package bind cards in member BIND. All of these packages are bound into a single collection *<collection>*. There is a single plan bind statement for plan *<plan>* in member BIND1 which includes all packages in PKLIST *<collection>*.

Job BINDJCL should execute with a return code of zero.



RACF AUTHORIZATION OF SOLA IMS CONTAINER

In accorance with your site security requirements, define the <SOLAStartedTaskName> to RACF 'Started' Class to assign a STC userid under which the job must run.

Make sure that the STC Userid you assign:

- Has OMVS UID defined
- Has access to SOLA libaries
- Granted EXECUTE on SOLA DB2Plan (Refer to member DCL in samplib).

APF AUTHORIZE THE SOLA LOAD LIBRARY (RECOMMENDED)

To allow the SOLA IMS Container to validate Security credentials passed through a SOAP request, the SOLA Loadlibrary must be APF authorized. Your z/OS Administrator can do this by adding the *<tlibhlq>*.LOADLIB to your system parmlib PROGxx and dynamically activating the parm with SET PROG=xx.

DEFINING IMS COMPONENTS

The SOLA IMS Container includes the ability to invoke IMS-TM transactions and subroutines as reusable web services. You will need to use your standard IMS procedures to define the transaction and PSB that SOLA uses to invoke IMS subroutines. No IMS transactions or PSBs are required to use SOLA with IMS transactions, but they are required if you wish to use the sample transactions. The IMS macro instructions are contained in members IMSGEN (to define the IMS subroutine driver and sample transactions) and PSBGEN (to define the PSBs for the subroutine driver programs and define the sample program). The definitions for the sample program and transaction are required for installation verification.

SETTING UP THE IMS MESSAGE PROCESSING REGION (OPTIONAL)

Before you can use SOLA to invoke IMS transactions and subroutines you will need to add the SOLA Runtime Library to the STEPLIB concatenation of the IMS Message Processing Region (MPR).



CONFIGURING THE SOLA IMS CONTAINER

The SOLA IMS Container runs as a z/OS started task. The Started task can be setup as a HTTP or MQ based SOLA server. It incorporates many of the features of the SOLA CICS Container, but because it runs without CICS there are several parameters that need to be specified to make it work.

The parameters are specified in a PARMLIB dataset that's made available to the Started Task by specifying it in a DD statement in the Started Task JCL.

Started Task JCL

The following sample JCL is provided in the SOLA SAMPLIB. Customize this JCL to conform to your installation requirements. The JCL can be customized using the SOLAEDT Rexx Edit Macro that you customized during the installation of SOLA.

SOLA STC Proclib

```
//* SOLA STARTED TASK
//LISTEN EXEC PGM=XMLPC125,
11
              REGION=<RegionSize>, DYNAMNBR=20
//STEPLIB DD DISP=SHR, DSN=<tlibhlq>.LOADLIB
11
           DD DISP=SHR, DSN=<DB2.SDSNLOAD>
//
           DD DISP=SHR, DSN=<Db2.SDSNEXIT>
           DD DISP=SHR, DSN=<tlibhlq>.LOADLIB
//SOLALIB
11
           DD DISP=SHR, DSN=<Application Template Libary>
//SYSUT1
           DD DSN=&UT1,
              SPACE = (1700, (400, 50)),
11
11
              UNIT=SYSDA
//SYSPRINT DD SYSOUT=*
//SYSOUT
           DD SYSOUT=*
//*DSNTRACE DD SYSOUT=*
//SYSTSPRT DD SYSOUT=*
//CEEDUMP DD SYSOUT=*, SPIN=UNALLOC, FREE=CLOSE
//PARMLIB DD DISP=SHR,DSN=<Parmlib(SOLAPRMS)>
```

<RegionSize>

The region size that's required to run the SOLA STC can be computed as follows:

Base Region size needed = 3 MB Each SOLA Thread will consume = 0.5 MB

If you setup a SOLA Started task to process a maximum of 50 threads then the region size required is $3 \text{ MB} + (50^*.0.5 \text{ MB}) = 28 \text{ MB}$



<Application Template Library(Libraries)>

Concatenate your application template library(libraries) to the SOLALIB DD card. These datasets are load libaries where generated SOLA template loadmodule artefacts are stored

<Parmlib(SOLAPRMS)> (2

DTYP=HTTP | MQ TRCE=0 SYST=SOL1 PLAN=XMLCLNT DB2S=DB9G PROT=000 MAXT=200 FCTM=02000 TIME=00100 MTSQ=09999 IDLE=86400 ** For HTTP Server ** PORT=01449

TCPN=TCPIP ** For MQ Server ** OMGR=<Omgr>

REQQ=<MQRequestQ> Specify each parameter exactly as shown. Each parameter must start on a separate line and begin in column 1. Don't abbreviate numeric fields; each field must have the

SYST: Mandatory

4 alphanumeric characters. The SOLA System ID (equivalent of CICS SYSID) assigned to the SOLA Started Task instance.

PORT: Mandatory (** For HTTP Server**) 5 numeric digits. SOLA Started Task Listener TCPIP Port Number

DB2S: Mandatory 4 alphanumeric characters. DB2 Subsystem in which the SOLA directory is created

PLAN: Mandatory 8 alphanumeric characters. DB2 Plan to be used

requisite number of digits, as specified below.

TRCE: Optional

1 numeric digit. Sets the trace Level for debugging the SOLA Started Task.

Values : 0 – 9. Default: 0 (No Trace)

PROT: Optional



3 numeric digits. Specifies the number of protected threads to be created.

Default: 000 (No protected threads created at start-up of SOLA STC instance)

MAXT: Optional 3 numeric digits. Specifies the maximum number of concurrent threads to be supported by the SOLA STC instance

TCPN: Optional (**For HTTP Server**)

8 alphanumeric characters. TCPIP address space name on the system that SOLA will connect to.

Default: TCPIP

FCTM: Optional

5 numeric digits. Specifies the number of SOLA Internal Logging File Control records to be handled by the SOLA STC instance.

Default: 02000

MTSQ: Optional

5 numeric digits. SOLA STC caches runtime metadata into internal memory areas called TSQs. This parameter defines the number of TSQs to be supported by the specific SOLA STC instance.

Default: 09999

TIME: Optional

5 numeric digits. This is an SOLA internal control parameter that indicates how long in milliseconds that the listener should wait before the incoming socket connection is taken by a subtask.

Default: 00100

IDLE: Optional

5 numeric digits. SOLA STC thread manager uses the value specified in this parm to control when an IDLE thread is to be released. The value specified in this parm indicates number of seconds after which an Inactive(Idle) SOLA thread needs to be terminated

Default: 86400

QMGR: Mandatory (**For MQ Server**)

4 alphanumeric characters. MQ Subsystem to which the SOLA MQ server connects. *Please note that CSD Definition and XML# definition for TRANCLASS is shipped with the default DFHTCL00 and if MQ is going to be used, must be customized at setup.*



REQQ: Mandatory (**For MQ Server**)

Max 48 character SOLA Request Queue Name. This is the Queue to which applications route the soap requests to be processed by SOLA MQ Server. *Please note that CSD Definition and XML# definition for TRANCLASS is shipped with the default DFHTCL00 and must be customized at setup.*



Chapter 4: Installing the SOLA Development Studio

OVERVIEW

The SOLA Installation includes host application server installation components. The installation package contains both an .ear file and a .war file. You start by choosing whether to install from the .ear or the .war, then you begin by copying the installation .ear or .war file to an install directory.

SOLA can be installed on WebSphere, WebLogic and Tomcat. Please follow the instructions in the appropriate chapter for your environment.



INSTALLING THE SOLA DEVELOPMENT STUDIO IN WEBSPHERE

This section provides instructions for installing the SOLA Development Studio into a WebSphere Application Server environment. The SOLA Development Studio requires WebSphere WAS 6.1 or greater. In order to begin installation of the SOLA Development Studio, you must have administrator privileges on the WAS computer that you're doing the installation on.

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Installing SOLA in WebSphere



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2.	Click "Applications" within navigation area to expand link.	
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	Contraction of the second	
3.	Figure 6: WebSphere Application Server –Integrated Solution Console	
3.	Figure 6: WebSphere Application Server –Integrated Solution Console Click "Install New Application" within navigation area. View of the server of the serve	
3.	Figure 6: WebSphere Application Server –Integrated Solution Console Click "Install New Application" within navigation area. View of the server of the serve	



Step	Procedure		
4.	Click "Browse" button within content area to select the location of your sola.ear application file.		
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	Copie C. Row B. A. B. A. B. A. B. A. B. C. Manuka, B. Balanda, K.		
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	A transm O excluding system		
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	Figure 8: WebSphere Application Server –Select the sola.ear file		
5.	Click the "Next" button within content area. This step uploads the sola application ear file to the server and may take several minutes to complete.		
	2 Interactive Solidions Learning Laylows □		
	Image: Control to the second control to the seco		
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	# Index almostrature Catalation Bit Units allowaters Catalation		
	Part Caroo ⊕ Preve Vit.		
	9-9941415;03:22.08:59294piposakatata		
	Figure 9: WebSphere Application Server –Upload the sola.ear file		



Step	Procedure		
6.	Make any choices specific to your installation or Click "Next" to continue with default settings.		
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	Number		
	Water brand		
	Figure 10: WebSphere Application Server –Select Installation Options		
7.	Make any choices specific to your installation or Click "Next" to continue with default settings.		
	Higher Database Implementation Implementation </th		
	Riddl		
	ton to a trans to a tr		
	Figure 11: WebSphere Application Server –Map modules to servers		



Step	Procedure
8.	Make any choices specific to your installation or Click "Next" to continue with default settings.
	Integrate Solution Scenete - Tickness Morenet Exclusion
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	tea 👔 🖗 Hand – E. 1955
	Figure 12: WebSphere Application Server –Map virtual hosts for web modules
9.	Make any choices specific to your installation and Click "Finish" to complete the application installation.
	Image: Section Control Image: Sectio
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	By Provide Improvide Yet By Provide Improvide Provide Improvide
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	Figure 13: WebSphere Application Server –Summary



Step	Procedure
10.	Click "Save" link within the content area to finalize the installation.
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	To wan with related application, doi: No Yanga Application' biblio. Menang Applications
	Figure 14: WebSphere Application Server –Save
11.	Click "Enterprise Application" to see the application you just installed. Unless you explicitly changed it the SOLA application will be named "sola". Click on that link to configure the class loading policy that is required when using WebSphere Application Server.
	Integrate Solations Cauld I
	Alanchemister
	Example Discription <
	Figure 15: WebSphere Application Server –Configure the class loading policy



Step	Procedure
12.	<complex-block></complex-block>
13.	Figure 16: WebSphere Application Server –Class loading Select "Classes loaded with application class loader first" and "Class loader for each WAR file in application" and click the "Ok" button. Image: Select Transmission of the
	Figure 17: WebSphere Application Server –General Properties



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			on will be named "sola"	
		1 of the "SULAROO	t" directory where SOLA	stores customiza
	information			
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.5.	Figure 18: WebS Click "Java and Proce	Contract (Contract) Contract (Contract) Contract (Contract) Contract Contrac		and the second s



р	Procedure			
16.	Click on the "Process D	Definition" link.		
	Tr · Q * Web Search	Assistant and a second statute		
			E Maragng Budianaan	🐨
17.	Next click on the "Java directory which will cou the state of the state of the state of the state of the state of the stat	Virtual Machine' ntain SOLA's conf Ner	iguration info.	you to enter the root
17.	Next click on the "Java directory which will cou the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat	Virtual Machine' ntain SOLA's conf version of the second state of	' link which will allow '	you to enter the root
17.	Next click on the "Java directory which will con- figure to the second s	Virtual Machine' ntain SOLA's cont	/ link which will allow figuration info.	you to enter the root



Step	Procedure
19.	Click on the "Custom Properties" link
	Hong de fonde nue to traisen mana la serie Imparte de de la serie Imparte d
	Figure 22: WebSphere Application Server –JVM Properties
20.	The content section now contains a panel which will allow you to enter a system property (which represents SOLA's root directory to contain configuration info). After you set the property named "com.soa.sola.root" to the root location of where you want your config data to be stored click "Ok". In the example below, "/was-as1/apps/wasuser" is the file system which SOLA will use. You can create a new directory for use by SOLA. Note: The authority of the JVM must have read/write/execute access on this directory or folder.
	<image/>
21.	Proceed to chapter 4 for customization.



INSTALLING THE SOLA DEVELOPMENT STUDIO IN WEBLOGIC

This section provides instructions for installing the SOLA Development Studio into a WebLogic Application Server environment. The SOLA Development Studio requires BEA WebLogic Server 8.1 or greater. In order to begin installation of the SOLA Development Studio, you must have administrator privileges on the WebLogic computer that you're doing the installation on.

Step	Procedure
1.	Point to the SOLA installation package. Change to the /ide/ear/ directory.
2.	Start the Weblogic Server by invoking the startup script as shown below.
	Figure 24: WebLogic –Start-up

Installing SOLA in WebLogic



Step	Procedure		
3.	Once the server has started successfully, load the Administration console screen using the following URL: e.g http://localhost:7001/console		
	🚡 Cannot find server - Microsoft Internet Explorer provided by Merrill Lynch 📃 🗗 🗙		
	Ele Edit Yew Favorites Tools Help 🧗		
	Address 🗿 http://locahost.7001/console		
	Administration Console BEA WebLogic Server 8.1		
	WebLogic Server Administration Console Sign in to work with the WebLogic Server		
	Username: weblogic		
	Password:		
	Sign In		
	Done		
	Figure 25: WebLogic Server –Administration Console		
4.	Sign in. A successful sign in will navigate the user to the screen shown below		
	🗃 WebLogic Server Console - Microsoft Internet Explorer provided by Merrill Lynch 📃 🗗 🗶		
	File Edit Wew Favorites Tools Help 👔		
	Address 🕘 http://ocahost:7001/console/actions/mbean/MBeanFramesetAction?body/FrameId=wl_console_frame_114123617265186Mew=False8ArameId=wl_console_frame_1141236 🝸 🎅 Go 🛛 Links 🐲		
	© Console Welcome to BEA WebLogic Server Home ff = ? BEA (bear ■ Servers Connected to : mydomain You are logged in as: weblogic Loggud		
	Machines Information and Resources Deployments Undefinition		
	Applications Telepitul Tools General Information EVB Modules Convert weblogic properties Read the documentation Web Application Modules Deploy a new Application Common Administration Task Descriptions		
	Connector Modules Recent Task Status Set your console preferences		
	Control Configuration		
	Tasks Duttern Concession Concessi		
	Machines Connector Modules Startup & Shutdown		
	Services Configurations JDBC SNMP Other Services		
	Connection Pools Agent XML Registries		
	Data Sources Monitors Virtual Hosts		
	Data Source Factories Log Filters Domain-wide Logging Attribute Changes Mail JMS Trap Destinations FileT3		
	Connection Factories Templates Connectivity Messaging Bridge		
	Immunities Connectorry Messaging unlight Destination Keys WebLogic Tuxedo Connector Bridges Image: Stated Image: Stated Image: Stated		
	🖉 Appen langupes standed () Cibeoluser_pr 🕐 EdisPus - [Cib 🗁 YiJUSPCIpcolSt 🗱 CiWINDOWSIs 🖉 WeblogicInstall () Weblogic Ser () Cibeoluser pr		
	Figure 26: WebLogic –Server Home		



Step	Procedure
5.	Click on 'Deploy a new Application' link on this screen to go to the screen shown below.
	Address Ity:///scalabilit/001/corosub/scalability/index/VPeer if ramestet/action/body/frameld=wd_corosub_frame_114123617265184blewe=dabeliframedd=wd_corosub_framedd=wd_corosub_frame_114123617265184blewe=dab
6.	Explore newsplot started © Trusted started Figure 27: WebLogic – Deploy a new application Click on the 'upload your file(s)' link on this page to go to the screen shown below.
	Class de la cardina de grade de la la cardina de provide de la cardina de la cardin
	Applet newspilet started Figure 28: WebLogic –Install or Update an Application














Step	Procedure
13.	Restart the server now as shown below.
	Figure 35: WebLogic –Start-up
14.	Proceed to chapter 4 for customization.



INSTALLING THE SOLA DEVELOPMENT STUDIO IN TOMCAT

This section provides instructions for installing the SOLA Development Studio into a Tomcat Application Server environment. The SOLA Development Studio requires Apache Tomcat 4.1 or greater. In order to begin installation of the SOLA Development Studio, you must have administrator privileges on the Tomcat computer that you're doing the installation on.

Installing S	SOLA in	Tomcat
--------------	---------	--------

Step	Procedu	re					
1.	Insert the	e SOLA installation pa	ackage. C	hange to th	ne /ide/war/ di	rectory.	
2.	Copy /id	le/war/AppSOLA.wa	ar from t	he packag	e to		
		NA_HOME/webapps				. • ×	
		File Edit View Favorites Tools Help	Folders			A.	
		Address C:\apache-tomcat-5.5.12\webapps Folders	×	Name 🔺	Size Type	Co Date Modified	
		Costrop Costrop Costrop Costrop Costrop Mocounterts Mocounterts Mocounterts Sty Reppy (A) Costrop Costrop			File Folder File F	1/24/2006 12:36 PM 1/24/2006 12:36 PM 3/2/2008 3:32 PM 1/24/2006 12:35 PM 1/24/2006 3:32 PM 3/2/2008 3:32 PM 3/22/2008 5:32 PM 3/22/2008 6:4P PM 4/18/2006 11:56 PM	
			S EdiPlus - [C:\apache	5		🌒 🕄 🏓 11:59 AM	
		Figur	e 36: To	mcat -wa	ar file copy		



3.	Edit the server.xml file (available at CATALINA	_HOME\conf) to include a	new
	the Context as follows.		
	You may use notepad or any other xml editor t	o edit server.xml.	
	Br (7.apacher tomosil: 6.8.12/sawl		641.5
	the Edit New Parcetter Kodis make		2
	O fact - O - 7 P 7 J bank to Fallers To		- 01
	Patient and In treating In the impact of the Child State in the impact of the Impact	See Type Dist Number PR hole EXELUTE 1: EXEL	
	Figure 37: Tomcat –	Edit server.xml	



Step	Procedure
4.	The Root Context should be added inside the <host> element tag as follows:</host>
	<context docbase="/AppSOLA" path="/sola"></context>
	Make sure that Context starts with an uppercase C and docBase has an uppercase B. AppSOLA is the folder under CATALINA_HOME\webapps that contains the code. Sav and close the file.
	S server and - Notepad
	Che Edit Figural (pere tolo
	<pre>stored in a database and accessed via 300C> ct ckeals classwame='org.apache.catalina.reals.stockeals' do'uverwame='org.apache.catalina.reals.stockeals' do'uverwame='test' connectionParemond's rest' connectionswame='test' connectionParemond's rest' cuerBoletable='user_userwameCol='user_name' userCredCol='user_pass' userBoletable='user_notes' rolexameCol='user_pass' cla- classwame='org.apache.catalina.reals.stockeals' connectionswame='org.apache.catalina.reals.stockeals' classwame='org.apache.catalina.reals.stockeals' connectionswame='org.apache.catalina.reals.stockeals' classwame='org.apache.catalina.reals.stockeals' connectionswame='org.apache.catalina.reals.stockeals' classwame='org.apache.catalina.reals.stockeals' classwame='org</pre>
	xmlval1dat1on="false" xmlkamespaceAvare="false"> scontext path= /rold_dochare= /aggSOLA_/S
	c) Defines a cluster for this mode. By defining this element, makes that every manager will be changed. So when running a cluster, only make sure that you have webapps in there that need to be clustered and remove the other ones. A cluster has the following parameters:
	className = the fully qualified name of the cluster class
	name - a descriptive name for your cluster, can be anything
	mcastAddr - the multicast address, has to be the same for all the nodes
	mcastWort - the multicast port, has to be the same for all the nodes
	mcastBindAddr = bind the multicast socket to a specific address



5.	Next, edit the catalina.bat file (available at CATALINA_HOME\bin) to add a new variable SOLARoot and modify, or add, the JAVA_OPTS variable as shown below.
	"SOLARoot" is a property that dictates where SOLA keeps files for its own use.
	iddress 🔁 C:\Tomcatlgakarta-tomcat-4.1.31\bin olders X Name 🗢
	Statements
	Figure 39: Tomcat –Edit catalina.bat
	Add SOLARoot as follows:
	set SOLARoot=-Dcom.soa.sola.root=" <filesystem>"</filesystem>
	This will specify where you want SOLA to store product related files. For example, if you already have a directory created called c:\SOLAFiles you would specify SOLARoot as follows:
	set SOLARoot= -Dcom.soa.sola.root = "c:\SOLAFiles"
	If you do not already have a directory to store SOLA related files then you should first create one.
	Note: The authority the JVM runs under must have read/write/execute to this file system
	Next, add the following lines in catalina.bat
	set JAVA_OPTS=%JAVA_OPTS% %SOLARoot% -
	Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager
	cabling.bat-hotepad Je git Spans Use Heb Set CURRENT_DIR-%cd% set Current_orgen/cd%
	if not "%CATALINA_HOME%" == "" goto gotHome set CATALINA_HOME%CURRENT_DIR% if exist "%CATALINA_HOME%CURRENT_DIR% cd set_CATALINA_HOME%Cd%
	ed %cUMPENT_DINK :gottome if exist %cATALINA_HOMEK\bin\catalina.bat" goto okHome echo The CATALINA_HOME environment variable is not defined correctly ecoto end environment variable is needed to run this program isokHome
	rem Get standard environment variables if exist "XCATALINA_HOMEX\bin\setenv.bat" call "XCATALINA_HOMEX\bin\setenv.bat"
	rem Get standard Java environment variables if exist "XGATALINA-MOMEXbin/setclasspath.bat" goto oksetclasspath echo cannot find XGATALINA-MOMEXbin/setclasspath.bat echo This file is needed to run this program isoksetclasspath sot_BASEDIR=XGATALINA_HOMEX
	call "%CATALINA_HOMEK\bin\setClasspath.bat" rem_add on extra jar files to CLASSPATH ifr %ISSE_HOME%"TOTO noisse setClasspath=%CLASSPATH%(XSATALINA_HOMEK\bib\cert.jar;%JSSE_HOMEX\lib\jnet.jar;%JSSE_HOMEX\lib\jsse.jar noisse setCLASSPATH=%CLASSPATH%(XSATALINA_HOMEX\bin\bootstrao.jar
	if not "XCATALINA_BASE" == ""goto gotBase set CATALINA_BASE-%CATALINA_HOMEX iootBase
	if not "%CATALINA_TMPDIR%" == "" goto gotTmpdir set CATALINA_TMPDIR-%CATALINA_BASE%\temp :gotTmpdir
	if not exist "%CATALINA_HOME%\bin\tomcat-juli.jar" goto noJuli set SoLARgot-=Dcom.soa.solarroot= C;\apache=tomcat=5.5.12\vebapps" set_Jav_Jorfs-%JAv_ActrS% SoLArbot% -ojava.util.logging.managef=org.apache.juli.classLoaderLogManager -Djava.util.logging.co
	:noJuli rem Execute The Requested Command echo Using CATALINA_BASE: %CATALINA_BASE%
	echo using catalina, Homes Scatalina, Homes echo using catalina, Homes Homes echo using Java_Home: SJAVA_Homes
	Figure 40: Tomcat –catalina.bat
	Save and close the file.



Step	Procedure
6.	Start the Tomcat Server by invoking the startup script as shown below.
	C:\apache-tomcat-5.5.12\bin>startup_
7.	Figure 41: Tomcat –Start Tomcat A new command prompt window should pop up when the server starts.
	C.V.MADROWSLAWSERSON Image American Strategy and the second strategy and the second strategy and the second strategy and strate
8.	Proceed to chapter 5 for customization.
8.	Figure 42: Tomcat –Command Prompt Window

A Client who recently completed installation successfully was quoted:

"We set the sola root to the /SOLARoot directory. We didn't put in the Context path step of the installation because it was causing a startup error. We also didn't rename the war file but instead left it named sola.war which is how it was named upon download from the SOA Support Site."



Chapter 5: Customizing SOLA

This section provides instructions for customizing SOLA for use as an SOA development and run-time platform. The customization steps are performed through your browser using the newly installed Development Studio and the Resource Manager. The Development Studio will in turn customize the SOLA run-time.

Begin by entering values for your installation into the Development Studio Customization worksheet on the next page.



DEVELOPMENT STUDIO CUSTOMIZATION WORKSHEET

Parameter Name in the sample WRKSHEET			Your
provided	Description	Notes/Examples	Values
SOLA Website	This is the http address where SOLA Web-site is accessible	http://sola.web.com:9203/sola/index.html The index page is a available under context sola. Hence, append /sola/index.html to the server FQDN.	
productKey	Supplied product key	A3zUx8iLqprTm0	
FTPSite	Mainframe FTP FQDN	DEVMF.SYSPLEX.COM	
	The FQDN of a SOLA Container which provides the mainframe backend for the SOLA Development Studio. If the container is a SOLA CICS Container then append "/CICS/XML/XMLPC000" at the end of FQDN where CICS is listening. If the container is SOLA IMS Container then append "/XMLPC000" at the end of FQDN where SOLA is listening. This region may or may not be the same as the OpenAccessEndPoint	http://cicsFQDN:3067/CICS/XML/XMLPC000 for a SOLA CICS Container or http://SOLAFQDN:3067/XMLPC000	
SOLASoapAddress	FQDN.	for a SOLA IMS Container	
MQTestEndPoint (repeat for each endpoint)	The queue name that SOLA will use for receipt of SOAP over MQ messages. This value is optional.		
OpenAccessEndPoint (repeat for each SOLA	The FQDN of a SOLA Container. This region is will be accessible to anyone from the web- site. It may or may not be the same as the SOLASoapAddress FQDN If the container is a SOLA CICS Container then append "/CICS/XML/XMLPC000" at the end of FQDN where CICS is listening. If the container is SOLA IMS Container then append "/XMLPC000" at the end of FQDN where	http://cicsFQDN:3067/CICS/XML/XMLPC000 for a SOLA CICS Container or http://SOLAFQDN:3067/XMLPC000	
Container)	SOLA is listening.	for a SOLA IMS Container	



	The FQDN of a SOLA		
	Container. This region		
	will only be accessible to		
	authorized users of the		
	Development Studio. If		
	the container is a SOLA		
	CICS Container then		
	append		
	"/CICS/XML/XMLPC000"		
	at the end of FQDN	http://cicsFQDN:3067/CICS/XML/XMLPC000	
	where CICS is listening.	for a SOLA CICS Container	
	If the container is SOLA		
	IMS Container then	or	
RestrictedAccessEndPoint	append "/XMLPC000" at		
(repeat for each SOLA	the end of FQDN where	http://SOLAFODN:3067/XMLPC000	
Container)	SOLA is listening	for a SOLA IMS Container	
Container)		Ior a SOLA INIS Container	
	The hostname or IP		
	Address of the TCPIP		
IP Address/FQDN:	stack that IMS Connect	10 20 10 5	
	connects to.	10.20.12.5	
Port	The port that IMS		
1 011	Connect is listening on.	1255	
Data Store Id:	The Datastore name	IMSCON	
Data Store Iu.	corresponding to the		
	configuration parameter "ID" in the		
	"DATASTORE"		
	configuration statement		
	of IMS Connect.		
	The name of the TCPIP		
TCP/IP Stack Name	stack that IMS Connect		
	connects to.	MVSTCP	
	Max number of		
	connections enabled with		
	IMS Connect. This		
Number of Sessions	parameter is ignored		
	with this release.	1	
	IMS XCF Group name as		
IMS Group Name	defined by parm		
	GRNAME in the IMS		
	subsystem.	IMSTST1	
	The name that IMS will		
	have within the XCF		
	group (specified by parm		
	OTMNAM in the IMS		
OTMA Name	subsystem).	IMSTST1	
	Unique user defined		
	name with which the		
	OTMA client will be		
	defined in the OTMA		
OTMA Client Name	connection (8 characters)	IMSOTMA	
o mar chent i vunic	4 character prefix for the		
	Transaction Pipe enabled		
OTMA TPipe Prefix	for the OTMA sessions.	IMS1	
UTIVITY IT IPE I TELIX	101 110 0 1111/1 505510115.		
Num of Sessions	Max number of		
	concurrent sessions	4	



enabled with the OTMA connection.	

Next follow the steps below to customize the SOLA installation and make it ready for use as an SOA development and run-time platform.

Note 1: The z/Series mainframe installation must be completed before you can customize the SOLA Development Studio.

Note 2: If you are an existing SOLA customer and are upgrading from SOLA 5.1 (or if you are a SOLA 6.0 customer), then the migration process will have copied your SOLA 5.1 configuration information and you won't need to follow the customization steps in this chapter. The migration process is documented in the SOLA 6.1 Migration Guide.

Note 3: If you are a SOLA 6.0 customer, you should restart the SOLA Server at this point to complete your installation steps.

Step	Procedure
	Enter http://servername:port/sola/install.html on your browser where <i>servername</i> and <i>port</i> refer to the server (WebSphere, WebLogic or Tomcat) where you installed the SOLA Development Studio.
	<text></text>



3.	You will be prompted for the product key. Please type the product key on the prompt as shown below. The product key will be provided separately.
	SOLA™ Developer Current User: SOLAIN
	Home
	Fiesse provide Product Key product Key: jBibtiliD-Oritgi77.j(2)v/V or o
	Second Internet 🔍 100% - 🛒
	Figure 44: Enter the product ID
4.	Read and agree to the license agreement.
	SOLA" Developer
	Home License Agreement
	SOLA" Service Oriented Legocy Architecture
	CLUCK THRU SOFTWARE LICENSE ACCESSENT READ THE SOFTWARE CLUCKING TO THE ACCESSENT TO ACCESSENT ACCESSENTACCESSENTACCESSENTACCE
	LICENSE GARGERINGT CANCERSISTY ON AN ONLINE FLACTIONIC FORMAT AND TO BE FOUNDE ALL OF THE TERMS AND CONTROL OF THE ACCENT THE IS LACENSE. THE TEST AND AND TO UT HE END USE, CLICENSEE? NO RE HELICENSE OF ALL MATCH AND TO USE THE SOFTWARE, TOGETHER WITH THE ACCOMENSATING CONTENTATION AS TO RET FORTH HEREIN: A DO RES NOT ATTROUBER THE DOWNLOATING, INSTALLATION OR USE OF THE CONTENT AND AND AND AND AND TO USE THE SOFTWARE TO BE SOFTWARE. TOGETHER THE ACCOMENSATING OF CLICENSOF THE LICENSE HAS AGREED TO BE SOFTWARE. TOGETHER THE RESOFT INSTALLATION OR USE OF THE ACCENT THE THE SOFT ADDRESS THE ADDRESS ACCENTED AND AND TO THE ACCENTRATE OF CLICENSOF OF THE ACCENT BE THE INSTALLATION OF THE LICENSE AGREEMENT FAMILY ADDO BUTTON
	EXELOW: 1. Limited Right to Use () Except to exprovely entirely and only of to the additional bearing terms contained in the Lisense Agreement () Except to exprovely entirely the which eccompanies the following (the Taisensed Product Exhibit"), SOA route Lisense A
	 limited, non-securitories, non-stabilizensabili license to install and use solicyly for Licenseal Universal University Universal University University Universal University United University United University University Uni
	(c) Locave may make a maximally number of actival copies of the Software and Documentation, provided that all copies makes 2ADI copyright and any other proprietary metrics as included in the delayery of the Software and Documentations. Any copyr of the Software and Documentation and by Locave as the activative property of 2AD.
	(d) Except a segredy attributional hermin, Lexensor shall be (f) corpy the 5-Obsease are Documentation; (f) permit avera parent, shouldnaw, the parties to test the 5-Obsease of Documentation; (d) permit averas compilation, suverus segmenting or evaluation to test the 5-Obsease of Documentation; (d) permit averas compilation; or constantistican; (d) permit averas compilation; constantistican; (d) permit averas compilation; constantistican; permit, administration; and permit averas compilation; and permit averas c
	2. Concerning: IDAs and its applicable licences shall settine (i) all rights, title and interest in and to the Software (in object and scores code fittions) and Deconsentiation, cosposite theored, corrections theoret (whather makes by IDA are othern) and a right and interesting and a good and the software interesting and a software or user of the right and and a software interesting and a software or user of the right and a software interesting a
	Figure 45: Read and agree to the license agreement



SOLA [™] Developer	Current User: SOLAIN Log In, Log Out
Home License Agreement retinicer or uncovery granted as performed uncover uncover or performant (uncovery uncovery uncovery as performed) Intervention (uncovery uncovery uncovery) retinicerson; Licenses shall hold SOA harmless from all claims and liability arising from LicenseeDs Intervention (uncovery uncovery) failure to report or pay any such taxes; dutes and assessments. Intervention (uncovery) Intervention (uncovery)	
13. Injunctive Relief that the second sec	
14. Audit Rights So An reserves the right to audit LicenseeIBs use of the Software upon five (5) daysI notice, but no more frequently than know every year. In the event that SOA finds that Licenses is not using the semibures SOA for the cost of the audit without limiting SOABs other rights under this Agreement or in leave resulty.	
14. Free Majore SOA shall not be responsible for any delays or inability to perform any of its obligations under this Agreement due to any Ade of God, free, casuadty, Mood, earthquake, war, Jarke, Iockaut, epidemics. A stransmission of the stransmission stransmission stransmission stransmission and any and the case beyond the responsible control of SOA.	
16. Histochanova Taki kanna gazatel kommelov may not be assigned or transfersel by operation of lare or education by Licencew etheroid SAMD giver vestion count. TOA may assign or transferse by operations of lare or of sample, sequinition or a law of of our solutability of the dispersion. The stress of the dispersion of large or dispersion of large or dispersion or a law of of our solutability of the dispersion. The stress of the dispersion of large or dispersion of large or dispersion of large of our dispersion of large or dispersion. The stress of the dispersion of large of our dispersion of large or dispersion of large or dispersion. The stress of the dispersion of large or dispersion dispersion and large or dispersion dispersion and large dispersion has large or any dispersion dispersion and large dispersion har	
READ THIS CONTRACT CAREFULLY. BY CLICKING THE 'I ACCEPT THE TERMS OF THE LICENSE AGREEMENT' RADIO BUTTON AND/OR INSTALLING OR VISING ANY SOFTWARE YOU ARE AGREEMENT TO ENTRE INTO THIS AGREEMENT IN AN ONLINE ELECTRONIC FORMAT AND TO BE BOUND BY ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT.	
○ I accept the terms of the License Agreement ○ I do NOT accept the terms of the License Agreement	
SUBMIT	~



Properties Allowable Values InstallationPassword Encrypted value is pre-filled here. Do not modify on this page, changing the installation password is done on a separate page. InstallationUserid* Optional. Enter a valid SAF ID. SOLA will use this ID to run all back end transactions that support the Development Studio. * This optional property should only be defined if you have completed the optional step described in section Define the CICS Analyzer to use with SOLA (Optional) on page 34. consoleFile YES - creates and append stderror.txt and stdout.txt with error or warning messages. NO - sends messages to the server console. Debug I - Log all informative, warnings & Errors W - Log all warnings and error messages E - Log only error Messages. Value "E" is default and recommended. SOLA's product key. This will be prefilled based on the key you entered previously. Image: the image and enter is the image and enter in the image and enter in the image and enter in the image. Image: the image and enter is default and recommended. SOLA's product key. This will be prefilled based on the key you entered previously. Image: the image and enter image. Image: the image and enter image and entero image and enter image and enter image and e	6.	If the debugging.xml properties a	isplayed, beginning with the debugging.xml file. The not automatically displayed, go to the Property n /debugging.xml from the three dropdown boxes.
installationPassword Encrypted value is pre-filled here. Do not modify on this page, changing the installation password is done on a separate page. InstallationUserid* Optional. Enter a valid SAF ID. SOLA will use this ID to run all back end transactions that support the Development Studio. * This optional property should only be defined if you have completed the optional step described in section Define the CICS Analyzer to use with SOLA (Optional) on page 34. consoleFile YES - creates and append stderror.txt and stdout.txt with error or warning messages. NO - sends messages to the server console. Debug I - Log all informative, warnings & Errors W - Log all informative, warnings were sages. productKey SOLA's product key. This will be prefilled based on the key you entered previously. Image: Solution of the second of th			
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7.		nts that the SOLA run-time will manage. As n the drop down box below the "Filename"
	Diametric Admin Admin	Current User: SOLAN Log Jo. Log Xol Solenna Casterna Solenna Reme personal Property Descr Prosert User Property Descr Property Descr
	Figure 48: End	Point Key Value pairs
8.		ct the values in the endpoints.xml file. In this N for the following key-value pairs in the
	Кеу	Value
	FTPMode	ACTIVE or PASSIVE. Determines which FTP mode the SOLA Development Studio will use for communication with the mainframe FTP server for retrieving and
	FTPSite	storing datasets. ACTIVE recommended. The SOLA Development Studio communicates with z/OS in two ways – via SOLA web services for all directory access and via FTP for access to z/OS datasets, JES output and the JES scheduler. In this value you need to specify the address of the z/OS FTP server
	SOLASoapAddress	server. The FQDN of a SOLA Container. This region provides the mainframe backend for the SOLA Development Studio. This region may or may not be the same as the OpenAccessEndPoint FQDN.
	OpenAccessEndPoint	The FQDN of a SOLA Container. This region is where developers test their services. This region may or may not be the same as the SOLASoapAddress FQDN.
	MQTestEndPoints	Optional. The queue name that SOLA will use for receipt of SOAP over MQ messages. This value is optional.



RestrictedAccessEndPoint	Optional. The FQDN of a secured SOLA
	Container. This region is where services
	are executed. Only administrators will be
	able to see this value in an endpoint drop-
	down. This value is optional.
dataSource	This property allows customers to control
	where the SOLA Developer and Resource
	Manager store and retrieve internal meta
	data.
	There are two possible values:
	1. SOLA – (the default if this property is
	not specified). Web services calls to
	SOLA's mainframe execution environment
	are made to store and retrieve data from
	a DB2 Database
	2. FS – This option will use the local file
	system to store and retrieve the meta
	data.
ftp_verify	Optional. The default value of this
	property is 'N'.
	property is N.
	This property allows customers to control
	how user logons to the IDE are verified
	against RACF or equivalent.
	By default the SOLA mainframe runtime
	processes the logon request.
	processes the logon request.
	For SOLA CICS Container leave the
	default as 'N'.
	uelduit as N.
	For SOLA IMS Container (Started Task)
	adjust the value as follows
	• If the started task is configured to
	run in Authorized state [Refer to
	"Chapter 3: Customizing SOLA
	IMS Container on a z/Series
	mainframe", Section: APF
	AUTHORIZE THE SOLA LOAD
	LIBRARY (Recommended)] then
	leave the property to default 'N'.
	• If the started task is configured to
	run in Unauthorized state then set
	the value to 'Y' so the FTP
	mechanism will be used to verify
	user credentials at logon
UDDIServerAddress	Optional. The FQDN of a central UDDI V3
	registry for publishing SOLA Services.
	Release 6.1 of SOLA supports Service
	Manager from SOA Software.
UDDIUser	Optional. The UserId to use to connect to
	the UDDIServer.



	UDDIPassword Optional. The password associated with the UDDI UserId.							
9.	In the screen below we've entered a value for <i>FTPMode</i> , <i>FTPSite</i> , <i>SOLASoapAddress</i> , <i>OpenAccessEndPoint</i> and <i>dataSource</i> . We gave the <i>SOLASoapAddress</i> a "Property Descr" of <i>SOLA Development Studio</i> and <i>OpenAccessEndPoint</i> a "Property Descr" of <i>TEST</i> . These values will be used in the endpoint URL drop down.							
	SOLA [®] Developer							
	Attice Here Sec.							
	Color. Rouch Publi Name File Name /Ind /indian Andoots.ant SELECT /India /indian /indianset SELECT /India /indianset /indianset SELECT /India /indianset /indianset SELECT /Property Name Property Value Property Obsci SELECT //indianset /indianset /indianset SELECT /indianset <							
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	Done Russer Russer							
	Figure 49: endpoints changed							
	In this example <i>RestrictedEndPoint</i> , <i>UDDIServerAddress</i> , <i>UDDIUser</i> and <i>UDDIPasswo</i> properties have not been filled. You must delete these properties by clicking trash bir Icon on the right if you don't intend to use these values. You can add them back at any time.							
	Click the Update button to update the file and propagate the changes.							



10.	Next you'll need to verify, and optionally modify the JCL Jobcard that SOLA will use to submit jobs to assemble Templates (SOLA's runtime metadata). Go to the File Editor and choose " /inst " from the Cntx Root dropdown, " /system " from the Path Name dropdown and " /Jobcard.txt " from the File Name dropdown.
	SOLA" Developer
	Hone Admin ®
	Admin Menu Ad User File Editor Property Dictionary Control to Tack Trace
	SOLA File Editor Chtz Root Path Name File Name /not //option SELECT
	Annet V Assemble to the second seco
	RESET UPDATE DELETE
	Done 🐐 Local infraret 🔹 100% • • ::
	Figure 50: Selecting /Jobcard.txt
11.	Modify the accounting, CLASS and MSGCLASS parameters to meet your installation's requirements.
	SOLA" Developer
	Hone Admin ® ()
	Admin Meru Ad User Field for SOLA Field for
	Citbx Root Path Name /int //pytem /int /pytem
	/// class=a,MSGCLASS=F,USER= <h=useridk>,NOTIFY=<k=useridk></k=useridk></h=useridk>
	RESET UPDATE DELETE
	Social intranet 🔩 toosi intranet
	Figure 51: Modifying /Jobcard.txt
	Click the Update button to update the file and propagate the changes.



12.	Next you'll need to create environments that conform to your Software Development Life Cycle. We recommend you create at least three environments "T" (test), "S"
	(stage) and "P" (production) with sequences 1, 10 and 20 respectively.
	SOLA" Developer
	fore Admin * 40 Admin Menu 40
	Add Uber Viet Editor Controls 5. Tries Street
	Available Environment Codes: T Sequence: 1 Sequence: 1 For a description: Enter a description of the new environment.
	Done State 100% + 3
	Figure 52: Creating Environments
13.	The next step is to add an administrator. Click on the Add User icon and enter the RACF Id for the SOLA Administrator, then click the Create button.
	Current User: SOLAIN
	SOLA Developer
	Hone Admin Neur Admin Meur S S
	Add User File Editor Population & Destination & Common & Editor & Common &
	Last Name: Muchel Work Phone: 609-765-5377 Cell Phone: 722/96-2424 x100 createllaser x
	Division: SOLA User created successfully. Email: mix.monshar@soa.com
	Succel intranet 🖏 100% •
	Figure 53: Adding the SOLA Administrator



14.	endpoints	.xml file. You	use the SOLA Reso	ndpoints that we enter ource Manager to cor me>:<port>/sola/</port>	figure endpoints.	
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		Q- Containers	👹 Create Groups 🗄 Monitor Search 🐴 Error Search		Properties > = =	
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			Directory	Contentions		
					<	
					Local intranet 🔍 100% 👻 🛒	
		Figure 54	: Creating a Con	tainer group and	Container	
15.	Pick the e	nvironment y	ou want to create C	ontainer group for. L	et's assume you w	ant
			er group in environ n't need to do anyth	ment "T" which is alr	eady listed on the	top
		.eu so you uoi		ing special.		
	Now right	mouse click o	on the container dire	ectory and pick creat	e tor group menu	
		SOLA [™] Resource M	anager		Current Useri Lag In, Lag Out	
		Q. Containers	🏙 Create Groups 개월 Monitor Search 개월 Error Search		XDirectory - (Directory) >> E @	
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			SOLA Masks Certificates	Users IPs Policies Alerts	lastUpdated objectType XDirectory	
					<	
		javascript:SOLA.utility.Login.venify('SOLA.tre	es.admin.Containers.evtCreateGroup()')		Local intranet 🍕 100% 🔹 🔐	
		Fig	gure 55: Choosi	ng the environmo	ent	







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		Min Drut Queue Name : 0 Allow Default Yes v	environID expires 9999-12-31-01.0
		Second y :	firstNim Venkat groupID 2008-08-21-10.3
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	1	Request: Optional Response:	lastUpdated loadDs SOLAEXT.TEST.L
	1	Encrypt on Request: Optional V Encrypt on Response: Optional V	majorRole objectType User
	1	Signature on Request: Optional V Signature on Response: Optional V	otherid primaryKeyNm
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		IMS Connet OTMA	user DBVENKA Y
	I	Figure 57: Create Container Gro	oup
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The blue containe you leav The bott part con them at and this	d our new grou e background p ers. You can ch te them at the com half of the tains the defau the default set is used to defin	up 'SOLA Test1 Regions'. art of the screen contains the settings nange these settings, but for the mome	for the group of ent we recommend two parts. The commend that y S connection info ect to IMS for the
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The blue containe you leav The bott part con them at and this IMS com Press the If your S complete	d our new grou e background p ers. You can ch e them at the com half of the tains the default the default set is used to defin ponent. Defin e create buttor	up 'SOLA Test1 Regions'. art of the screen contains the settings hange these settings, but for the mome default settings. screen (white background) is split into ult policy settings for the group. We re stings. The lower part contains the IMS ne how the SOLA container is to conne ing the IMS connection information is o to create the Container Group.	for the group of ent we recommend two parts. The commend that y S connection info ect to IMS for the covered below.



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	Password on Request:	Optional 💌	Password on Response:	None 💌	email	venkat.pilay@so
	Encrypt on Request:	Optional 💌	Encrypt on Response:	Optional 💌	firstNm groupID	9999-12-31-01.0 Venkat 2008-08-21-10.3
	Signature on Request:	Optional 🐱	Signature on Response:	Optional 💌	ID lastNm	2008-00-21-10.3 2008-10-22-10.2 Pillay
	Timestamp on Request:	None 💌	Timestamp on Response:	None 💌	lastUpdated	SOLAEXT TEST L
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	IP Addresss:		1		primaryKeyNm privateKeyNm	
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		SOLA Test1 Regions	SOLA Masks Certificates		Users IPs Policies Alerts	lastUpdated		
			Directory		Directory	objectType	XDirectory	
			Great	teGroup oup created successfully.	SOLAAdmin SOLAAdmin K	coecitype	Auresay	
						S Local intranet	R 100% ·	
		Figure S	59: Conta	niner Gro	oup created			







21.	Fill in the region specific details.		
	SOLA [™] Resource Manager		Current Uners DBVERKA Log In. Log Out
		nitor Search	
	Containers Listing Create Sidolps in the second sec	nor search 194, Elfor search	Group - (SOLA Test1 >> ii @ Regions)
	Directory Tor System	RT	Name A Value
	SOLA Test1 Regions Name:	n: is i	createUser DBVENKA
		ainframe sola regior	description
	CREATE	RESET	groupNm SOLA Test1 Regi groupType TOR
			ID 2008-09-10-18.1
			InPassRegd N InputEncrType N
			InSignatureReqd N InTimestampReqd N
			InTokenRegd N E
			MonitorFrequency 120
			Monitorind Y MolinputQ 0
			OutPassRegd N
			OutputEncrType N OutSignatureRegd N
			OutTimestempR N OutTokenRegd N
			ProductKey
			SecurityExit XMLPC080 StorageLimit 0
	Done		Local intranet 🔍 100% 🔹 🛒
	Figure 6 The following is a description of	51: Create a new containe the fields:	r
	Sysid: the 4 character system I	d of a region.	
	TOR System Name: the name	of a SOLA region.	
	EndPoint: the soap end point or system administrator for the UR uses the following format:		
	SOLA CICS Container: http://mainframe IP addre	ess or FQDN:portnumber/CICS	/XML/XMLPC000
	SOLA IMS Container: http://mainframe IP addre	ess or FQDN:portnumber/ XML	PC000
	When you have provided all of the listener group and region. You w		
	Description: a free-form descri	ption of the SOLA region.	
	When you have provided all of the TOR.	he necessary information, click	Create to create the



