Sun™ Mainframe Transaction Processing Software Supplement for Sun Mainframe Security Facility

Sun MTP Release 8.0.1
Sun MSF Release 1.1.0

Sun Microsystems, Inc.
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Support for Sun MSF 1.1.0 With Sun MTP 8.0.1

Sun™ Mainframe Transaction Processing Software (Sun MTP), Release 8.0.1 with a minimum patch level of 8, now supports Sun Mainframe Security Facility (Sun MSF), Release 1.1.0. This document contains the following sections:

- "Usage Limitations With Sun MTP 8.0.1" on page 2
- "New Error Messages" on page 3
- "Notes About the Sun MTP 8.0.1 Documentation" on page 4
- "Notes About the Sun MSF 1.1.0 Documentation" on page 5

Refer to the following documents for information about Sun MSF 1.1.0:

- *Sun Mainframe Security Facility Release Notes for Solaris Platforms*
- *Sun Mainframe Security Facility Administrator's Guide*

These documents are available in the Sun Mainframe Transaction Processing Software Collection 8.1.0 at the web site:

`http://docs.sun.com`

Note – Sun MSF 1.1.0 obsoletes Sun MSF 1.0.0, Sun MSF 1.0.1, and their associated patches.

Usage Limitations With Sun MTP 8.0.1

When running Sun MSF 1.1.0 with Sun MTP 8.0.1, be aware of the following limitations:

- You can only use the Sun Java System Directory Server (LDAP directory), minimum release of 5.2, on platforms running the Solaris 9 and Solaris 10 operating systems.

  On the Solaris 9 and 10 OS, a Sun MTP region with Sun MSF configured with an LDAP directory as a repository might fail to start. This problem is caused by a known bug in the NSS libraries. (CR 6210080)

  To work around this problem, the superuser must configure the directories containing those NSS libraries as trusted directories using the `crle` command. For example:

```
# crle -u -s /usr/lib/mps
# crle -u -s /usr/lib/mps/secv1
```

- Configuring and using additional roles for a principal other than the primary role is not supported.
- The `CESN` login screen does not contain a Group Name field. Therefore, users can only login with a user ID.
- The `EXEC CICS SIGNON GROUPID` option is not supported.
- The `EXEC CICS QUERY SECURITY` API is not supported.
- Not all of the RESP2 codes documented in the *Sun Mainframe Transaction Processing Software Developer's Guide* for the following `EXEC CICS` commands are supported:
  - `CHANGE PASSWORD`
  - `SIGNON`
  - `VERIFY PASSWORD`
- The Sun MSF high availability data service for Sun Cluster is not supportedwith Sun MTP 8.0.1.

New Error Messages

The following error messages are not in the *Sun Mainframe Transaction Processing Software Message Guide* for Release 8.0.1.

`KIX4010E External Security: NSS function %s failed: status = %d`

Description: The specified NSS crypto function failed with the indicated status while Sun MTP was attempting to encrypt a user password.

Solution: To interpret the error status, refer to the NSS error codes section in the SSL Reference document on the Mozilla™ web site[1]:

`http://www.mozilla.org/projects/security/pki/nss/ref/ssl/`

If the error indicates that the NSS libraries cannot be located, and you are running on a Solaris 8 system, the libraries have not been properly specified in the `LD_LIBRARY_PATH` environment variable. You must add them to the environment variable in the Sun MTP region setup file, and retry. On Solaris 9 and 10 systems, Sun MTP explicitly tries to locate those libraries under the directories `/usr/lib/mps` and `/usr/lib/mps/secv1`, so if the error indicates that the NSS libraries cannot be located, or any other error, contact your authorized service provider.

`KIX4011E External Security: invalid trust token`

Description: The Sun MTP trust token has been rejected as invalid by the Sun MSF security server.

Solution: This message indicates an internal error between Sun MTP and Sun MSF. Contact your authorized service provider.

`KIX4012E External Security: PK11 context not initialized; password encryption failed`

Description: Sun MTP was unable to complete NSS crypto initialization, which is needed for password encryption.

Solution: On a Solaris 8 system, verify that the required NSS libraries are specified in the `LD_LIRARY_PATH` environment variable. If the libraries are not specified, add them to the environment variable in the Sun MTP region setup file,

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and retry. On Solaris 9 and 10 systems, MTP explictly tries to locate those libraries under `/usr/lib/mps` and `/usr/lib/mps/secv1`, so for this and any other error, contact your authorized service provider.

`KIX4013E External Security: invalid encrypt method %s; password encryption failed`

Description: The specified encrypt method was not recognized by Sun MTP, and therefore, password encryption cannot be done for the user who is attempting to log in.

Solution: This message indicates an internal error between Sun MTP and Sun MSF. Contact your authorized service provider.

`KIX4041I External Security: Invalid password constraints; %s`

Description: The password constraints (minimum and maximum length and format) returned from the external security manager are not recognized by Sun MTP.

Solution: Contact your authorized service provider.

Notes About the Sun MTP 8.0.1 Documentation

This section identifies information in the Sun MTP 8.0.1 documentation set that is no longer accurate when Sun MSF 1.1.0 is used as the external security manager.

Sun Mainframe Transaction Processing Software Administrator's Guide

Chapter 8, "Sun MTP Secure," : Ignore references to Chapter 9; refer instead to the *Sun Mainframe Security Facility Administrator's Guide*.

Chapter 8, "Sun MTP Secure," section "Using the KIX-FILES Resource Class": The information in this section is not accurate. The correct information is as follows:

> The KIX-FILES resource class controls access to the VSAM catalog, which is a VSAM dataset with the name `CATALOG`. By granting or denying KIX-FILES read permission on the `CATALOG` dataset, users are granted or denied permission to view VSAM file definitions in the VSAM catalog using the `CFMS` transaction. By granting or denying KIX-FILES write permission on the `CATALOG` dataset, users are granted or denied permission to create, delete, or modify VSAM files defined in the VSAM catalog using the `CFMS` transaction.
>
> VSAM file access by batch programs is not controlled by Sun MTP Secure.

Sun Mainframe Transaction Processing Software Configuration Guide

Chapter 2, “Setting Region Environment Variables,” section “Sun MSF Environment Variables”: Ignore the reference to the `EMPSECURITY` enviornment variable.

Notes About the Sun MSF 1.1.0 Documentation

This section identifies information in the *Sun Mainframe Security Facility Administrator's Guide* that does not match the Sun MTP 8.0.1 environment.

- Chapter 7, “Integrating With Sun MTP,” section “Authenticating Users and Roles”: This section contains information about `CESN` support for users and roles, which is not supported on Sun MTP 8.0.1.
- Chapter 7, “Integrating With Sun MTP,” section “Primer Sample Application Resources”: The sample directory structure changed in Sun MTP 8.1.0; therefore, references to the `README.txt` file in the `cobol_mf` directory are not valid.
- Chapter 7, “Integrating With Sun MTP,” section “MQ and MQ-JMS Bridge Sample Application Resources”: In Sun MTP 8.0.1, the readme file is named `README.doc` rather than `README.txt`.