

STAR Library Manager 1R2
Release Announcement

April 2010

Formula Consultants Inc.



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STAR Library Manager, LIBMGR, is a proprietary product of Formula Consultants Incorporated. Library Manager is licensed for use in computer centers using Unisys OS 2200 and it enables those systems to use the resources of a virtual tape library (VTL).

The System for Tape Administration and Reporting, STAR-1100, is a proprietary product of Formula Consultants Incorporated. STAR-1100 satisfies the magnetic tape library management requirements of, and is licensed for use on, computer centers using Unisys OS 2200.

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Software Version: 1R2

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General

Formula Consultants Incorporated is pleased to announce that Level 1R2 of STAR Library Manager is now available for distribution. STAR Library Manager is FCI's library control software for the Dynamic Solutions International (DSI) Virtual Tape Library (VTL) within the Unisys OS 2200 environment.

The STAR Library Manager level 1R2 product release can be obtained via the FCI Support Center.

Product Overview

The STAR Library Manager (LIBMGR) is software that enables OS 2200 to use the tape automation services of the Virtual Tape Library (VTL).

The LIBMGR program executes in a batch background run. OS 2200 uses the CARTTAPELIB\$ facility to pass tape mount and dismount requests to tape library solutions. In its interface with CARTTAPELIB\$, LIBMGR translates these requests into command sequences which can be recognized as requesting virtual resources. The requests are passed to the VTL via COMAPI using a communication network controlled by CMS or CPCOMM.

The CARTTAPELIB\$ interface allows OS 2200 to communicate with up to four tape library handlers. Consequently, LIBMGR supports up to four installation instances to allow full utilization of CARTTAPELIB\$. Each of these instances uses a different installation mode, from A through D. Each installation is independent and has its own background run.

Library Manager uses the COMAPI facility in OS 2200 to communicate with the VTL and with the STAR Scratch Pool Selector Server (see Figure 1.)

The Library Manager is released in absolute (zoom) form only, along with standard runstreams.

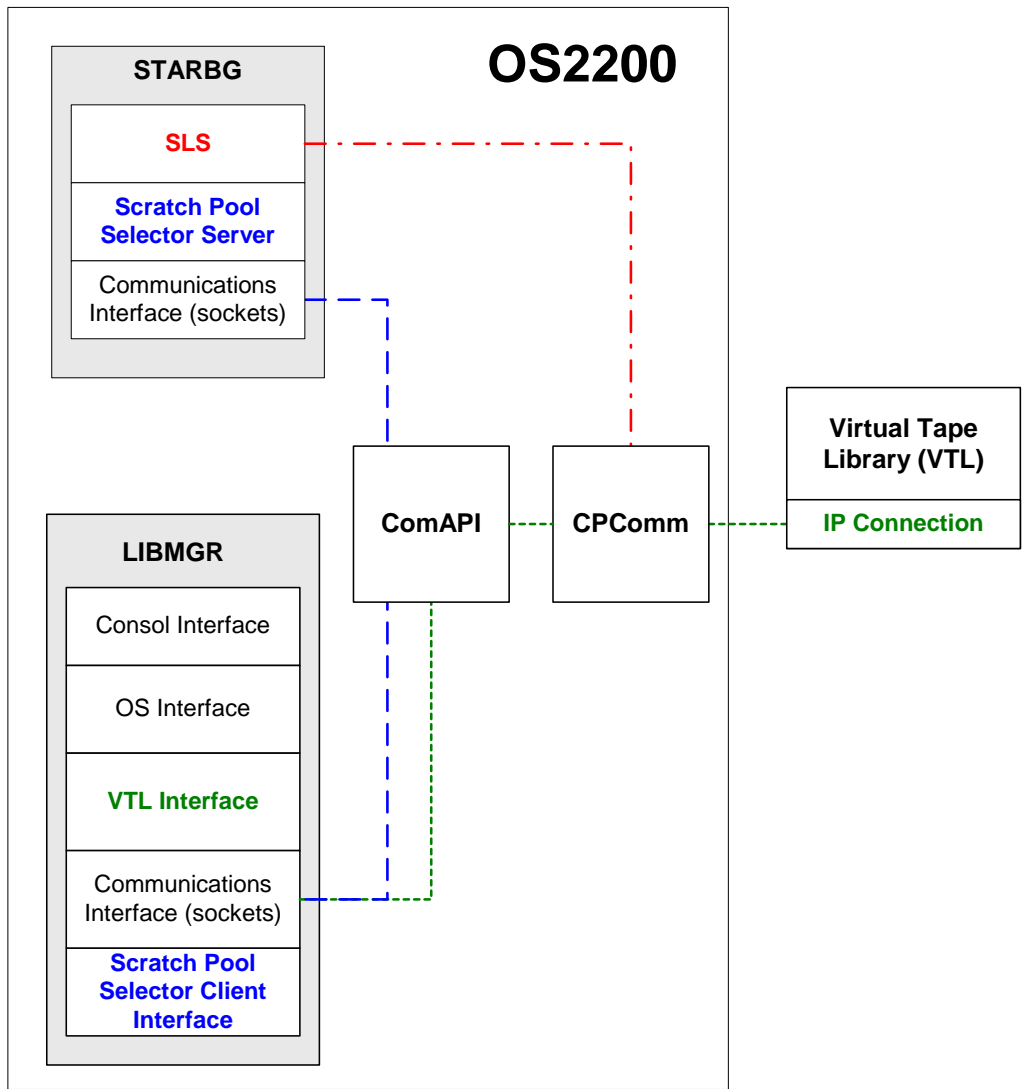


Figure 1. Overview of LIBMGR Components

Release Description

Feature and Enhancement Release

STAR Library Manager 1R2 is a feature and enhancement release. Key features and enhancements of the release are described in subsequent sections of this document.

New Features

Optional Default Pool Handling

In prior levels of Library Manager, when you requested a scratch tape in a VTL (Virtual Tape Library), you were required to specify a CTL pool name on the @ASG statement. Library Manager 1R2 removes this requirement. Now, if you do not specify a CTL pool name in the @ASG statement, Library Manager can be configured to select the scratch tape from a default pool.

Sites consider whether they need to migrate ECL job scripts as they introduce the Virtual Tape Library. The default pool makes it easier to deploy existing job ECLs, which may not have had a specific CTL pool name, into the virtual tape library environment.

Note that if you plan to use the default pool option, you must configure this feature in Library Manager. See below.

Enhancements

New Configuration Options

iSCSI Initiator Name

Prior levels of Library Manager used the system site identifier (SITEID) as the iSCSI initiator name. Library Manager 1R2 allows the optional specification of an iSCSI initiator name on the LIBRARY configuration statement.

Default CTL Pool

Library Manager 1R2 allows the configuration of a default CTL pool for use on assignments that do not specify a CTL pool name. The DEFAULT_POOL configuration statement enables default pool processing and identifies the default CTL pool name.

The default CTL pool is an optional configuration in Library Manager.

New Operator Commands

RESYNC

The RESYNC command causes Library Manager to resynchronize its inventory with that of the VTL library. This allows Library Manager to recognize changes to the VTL library without having to re-initialize.

VERBOSE

The VERBOSE operator command controls the display of information about Library Manager's processing of OS 2200 requests. This is useful for observing the operation of tape mounts, especially if you have more than one instance of Library Manager running, or also have CSC operating.

Library Manager and CSC share the CARTTAPELIB\$ interface to send mount requests to their respective library servers. The EXEC polls programs registered with CARTTAPELIB\$ in the order in which they were initially executed. The STAR Library Manager 1R2 Installation and Administrator Guide has information about the way the execution order can affect tape mounts, especially when using defaults.

The VERBOSE command generates a level of detail which can help you resolve questions or anomalies which might occur in an environment with more than one CARTTAPELIB\$ program running.

New and Updated Runstreams

STLIBMGR-A, STLIBMGR-B, STLIBMGR-C and STLIBMGR-D

The STAR Library Manager runstreams have been updated to provide more diagnostic information.

LMACFGRPTRUN, LMBCFGRPTRUN, LMCCFGRPTRUN and LMDCFGRPTRUN

The new configuration report runstreams have been provided to produce a report of all of the configurations which interact with each other. This configuration report establishes a context for analyzing diagnostic information if necessary.

Improved Error Messages

There are error messages pertaining to communications between Library Manager and the VTL, between Library Manager and the STAR Scratch Server, and other communications errors. Text has been added to those messages which previously showed only error codes.

STAR Library Manager Notes Of Interest

None.

Restrictions and Limitations

UCS object module execution must be supported. This includes support for extended mode by the Exec as well as installation of the LINK and URTS products.

Compatibility & Migration

Release 1R2 is generated under CP OS2200 11.3. The STAR Library Manager requires STAR-1100 Level 8R1 or higher.

Previous Level Support

Prior levels of STAR Library Manager currently supported include 1R1. FCI will support STAR Library Manager level 1R1 until October 2010.

Documentation

Documents provided with release 1R2 include:

- *STAR Library Manager 1R2 Release Announcement*
- *STAR Library Manager 1R2 Installation and Administrator Guide, FP-161-1R2*
- *STAR Library Manager 1R2 OS 2200 Release Tape Recreation Instructions*
- *STAR Library Manager 1R2 Quick Start Notes*

FCI Website

You may obtain general information about Formula Consultants, Inc. and its products at our website at www.formula.com. Once you register with the site and receive a userid and password, you can also download Notes of Interest. Product documentation in PDF format is also available (Adobe Acrobat™ Reader required).

FCI Support Center

FCI Support Center (FCISC) is available for use to support STAR Library Manager 1R2. The FCI Support Center is a 2200 host server software system accessible via the standard UNISYS Remote Site Support (RSS). It allows you to send and receive data electronically to and from FCI. Refer to the *STAR Library Manager Installation and Administrator Guide* for more information.

OS 2200 EXEC Considerations

Unisys maintains OS 2200 EXEC Problem List Entries (PLEs) for CARTTAPELIB\$. As CARTTAPELIB\$ is the crucial interface between STAR Library Manager, the OS 2200 EXEC and the VTL, you should review these PLEs to see if any are appropriate for your build.

PLE #	HEADLINE DESCRIPTION
18577046	Exerr-003 using CARTTAPELIB\$ with 20+ devices
18582121	Excessive number of poll requests in CARTTAPELIB\$ CSC usage
18582724	CTL monitor not detecting the timed out resposne from the CSC interface
18588765	Exerr-410 or Exerr-003 in CTLCMPLPOL
18732556	Exerr-417 in CTLSENDREQ on MOUNT request using CARTTAPELIB\$
18623544	Exerr-003 or Exerr-410 using CARTTAPELIB\$ for cartridge tape library

While these PLEs are the only known candidates for inclusion in a build, you can search EXEC PLEs for any additional relevant corrections by using the keywords VTL and CTL.

Corrections

File 12 on your release tape contains PCRs or Object Module updates, if any; which have been generated against this release, as of the date your tape was created. Include any of these corrections applicable to your site with the first build from this tape. STAR Library Manager elements are a combination of basic and UCS elements so the PCRs are organized by STAR Library Manager processor type (basic mode or UCS). These elements can be @ADDED following an @COMUS, to enter the corrections into your local COMUS database. First you should examine the file to determine which elements you need to add to your build.

The elements README, CHGNUM-ALL, and LIBMGR-NOIS are informational only and should not be @ADDED to your COMUS database.

The possible elements in File 13 are:

README	explanation and cutoff date/time
ADD/SGS	changes for the 'additional SGS' build prompt
BASE/ <i>version</i>	changes to STAR LIBRARY MANAGER elements
CHGNUM-ALL	list of all change numbers
LIBMGR-NOIS	all relevant Notes of Interest

where:

version can be BASIC or UCS depending on the associated STAR Library Manager element.

The CHG numbers generated by COMUS must be entered at the 'New Change number' build prompt. Enter these numbers individually, or @ADD the CHGNUM elements that apply to your build.

If you add UCS corrections, the UCOB and/or UC compilers must be installed. Another method of including UCS corrections is to copy updated object modules contained in this file. This is done by answering the build prompt, 'Any replacement Object Modules to be included', and specifying the filename into which the modules were copied.

File 12 of your release tape also contains Notes of Interest in the element called LIBMGR-NOIS. Notes of Interest are field bulletins which we recommend reading prior to generating or installing STAR Library Manager.

Ordering Instructions

To order your site's copy of STAR Library Manager 1R2, contact a sales representative at Formula Consultants Inc., at **714-778-0123**

or complete the attached Product Order Form and fax it to 714-778-6364, or mail your order to:

Formula Consultants Incorporated
P.O. Box 544
Anaheim, CA 92815
Attn: Product Sales

or Order STAR Library Manager 1R2 electronically by addressing your e-mail to:

sales@formula.com

or Order STAR Library Manager 1R2 through the Formula Consultants website at:

www.formula.com

Product Order Form

PRODUCT: STAR LIBRARY MANAGER

CUSTOMER: _____

DELIVERY ADDRESS: _____

CITY, STATE: _____

ZIP CODE: _____

CONTACT: _____

TELEPHONE NUMBER: _____

LAST STAR LIBRARY MANAGER LEVEL RECEIVED: _____

General Releases

The OS 2200 Software for STAR Library Manager is available electronically on CD in four different release “tape” formats, each in their own directory. The directory formats are:

DVD, DDP, FLIT and VTH.

Some sites will require a cartridge tape for a successful installation.

If **all** of the following are **true** for your site, please request the OS 2200 components of STAR Library Manager on cartridge tape.

- You are **not** running on a Dorado 300 series or above.
- You **do not** have DDP-FJT 5R5C (CP OS2200 9.0) or higher installed. It does not have to be running, it merely must be installed.
- You **do not** have FLIT 12R3 (CP OS2200 9.0) or higher installed.
- You **do not** have the Unisys VTH EXEC feature installed.
- You **do not** use or have RSS configured to run through the Internet, **and** your firewall **does not** allow you to send and receive on your port 102, with FCI’s IP address.

Media for General Release

FCI offers the following options for receiving the general release of STAR Library Manager 1R2:

- CD
- Electronic via RSS and the FCI Support Center

*Use SYSSLIB\$*LIBMGR\$.NEW-RELEASE/RSS-SCRIPT to copy to local tape.*

Media for Corrections

FCI offers the following options for receiving corrections to STAR Library Manager 1R2.

- CD
- Electronic via RSS and the FCI Support Center