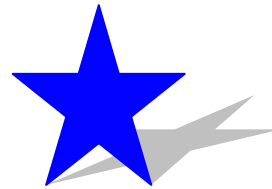


# *STAR-1100*

*SYSTEM FOR TAPE ADMINISTRATION AND REPORTING*

STAR-1100 Level 8R1  
Release Announcement  
Software Version: 8R1



September 2008

Formula Consultants Inc.



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Software Version: 8R1

# Contents

STAR-1100 Level 8R1 Release Announcement	1
General	1
Release Description	1
Feature and Enhancement Release	1
New Features	1
STAR VTL Virtual Tape Recognition and Processing	1
STAR Scratch Pool Server	2
Tracker Subsystem	2
New Software License Key file and Validation	2
Product Enhancements	3
New Physical Media Recognition and Reporting	3
New Virtual Media Recognition and Reporting	4
New Media Encryption Recognition and Reporting	4
New Scratch and Clean Parameters	4
Automatic Attribute Feature Enhancements	5
LABEL Processor Enhancements	5
New Paperless Support	5
New STAR-1100 Generation Parameters	6
New values for STAR-1100 Generation Parameters	6
Discontinued Features	6
STARPC and STARPC background Server	6
Media Manager	6
STAR-1100 Notes Of Interest	7
Restrictions and Limitations	7
Compatibility	7
Migration	8
TIFMAP MAPPER Interface	9
STAR QLP Interface	9
Migration and Fallback	10
STAR License Key File	10
Previous Level Support	10
Documentation	10
FCI Website	10
FCI Support Center	11
Ordering Instructions	11
Corrections	11
Product Order Form	13

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# STAR-1100 Level 8R1 Release Announcement

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## General

Formula Consultants is pleased to announce that Level 8R1 of our System for Tape Administration and Reporting (STAR-1100) is now available for limited distribution. As a normal FCI policy, this release will be provided at no additional cost to all STAR-1100 users with current maintenance contracts, as well as to users with licenses still within the initial warranty period.

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## Release Description

### Feature and Enhancement Release

STAR-1100 level 8R1 is a feature and enhancement release.



**CAUTION** *STAR-1100 Level 8R1 has a specific required migration path from previous STAR-1100 software levels. Please read the Migration Section carefully.*

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## New Features

### STAR VTL Virtual Tape Recognition and Processing

The STAR-1100 level 8R1 Product has been enhanced to recognize the new DSI (VTL) virtual tape solutions. Accordingly, the STAR scratch process has been updated to recognize and differentiate virtual scratch requests from

physical scratch requests. STAR then perform the correct scratch processing for this new virtual tape product.

## STAR Scratch Pool Server

STAR performs an important function of managing scratch pools to facilitate scratch mount requests. With level 8R1, STAR re-implements this capability in a server function, making it callable both within STAR and from an external program. This new server is named the Scratch Pool Selector Server.

One aspect of STAR 8R1 support of virtual tape libraries is its integration with STAR Library Manager. The STAR Library Manager detects user requests for blank VTL volumes. In satisfying these requests, it calls the Scratch Pool Selector Server in STAR 8R1. The Scratch Pool Selector Server returns a valid pre-configured pool for virtual scratch tape mounts. In this way, STAR's scratch pool capability incorporates the virtual tape libraries and achieves consistency of scratch tape operations throughout the OS 2200 environment.

## Tracker Subsystem

The STAR-1100 level 8R1 product now contains and installs a new Tracker Fixed Gate Subsystem and files. While not entirely functional in STAR 8R1, the new Tracker Subsystem will be deployed in subsequent releases of STAR-1100 for enhanced monitoring of the TIF Audit file.

## New Software License Key file and Validation

Starting with level 8R1, authorized operation of STAR-1100 requires the user to have a software key. In support of this feature, STAR-1100 level 8R1 now installs a license key file.

To obtain a license key, do the following:

1. Execute the utility STARINFO, found in the STAR level 7R3 or 8R1 release files. STARINFO probes your system, returning identifiers FCI then uses to create your valid key.
2. E-mail or FAX the system identifier information to FCI.
3. FCI will generate a software key and return it to you.



**CAUTION** *Because of the new license key in STAR-1100 Level 8R1, there is a specific required migration path from previous STAR-1100 software levels. Please read the Migration Section carefully.*

---

## Product Enhancements

### New Physical Media Recognition and Reporting

All programs and processors have been updated to recognize and report the different cartridge media types HIS9840D and T10KA. These newer media types will be reported with DENCOD values of CL and CH respectively. The RPTDEF generation and runtime parameters will also enable report page-breaking on the new density types. The following table reflects the new values:

RPTDEF	DENCOD	Media Type
<b>K</b>	<b>CL</b>	<b>T10KA</b>
<b>I</b>	<b>CH</b>	<b>HIS9840D</b>
E	CC	HIS9840C
B	CB	HIS9940B
L	CD	DLT7000 Cartridge
T	DV	DVD
N	L1	LTO1
O	L2	LTO2
P	L3	LTO3
Q	L4	LTO4
A	CS	HIS9840 (A/B) Cartridge
D	CM	36-Track Cartridge
C	C	18-Track Cartridge
S	9S	9-track 6250 BPI tape
V	9V	9-track 1600 BPI Tape
	9H	9-track 800 BPI
U	7H	7-track
U	7M	7-track

## New Virtual Media Recognition and Reporting

All programs and processors have been updated to recognize and report the different virtual media types for the DSI Virtual Tape Library. The new virtual media type will be reported with DENCOD values of VS. The RPTDEF generation and runtime parameters will also enable report page-breaking on the new density types. The following table reflects the new values:

RPTDEF	DENCOD	Media Type
H	VT	Unisys Virtual Tape Handler
F	VV	StorageTek Virtual Storage Manager
G	VM	Bus-Tech Mainframe Appliance for Storage
<b>W</b>	<b>VS</b>	<b>DSI Virtual Tape Library</b>

## New Media Encryption Recognition and Reporting

The STAR-1100 Product has been enhanced to report when a tapes has been written on a device with encryption. In CP OS2200 Release 11.3, the Unisys operating system supports three devices (LTO4, T10K and 9840D) which optionally support tape encryption. The STAR Processor and STAR Background DISPLAY command report if a tape was ENCRYPTED. The STAR Processor and QLP interface also allow ENCRYPTED as keyword that can be use for LIST Search commands

## New Scratch and Clean Parameters

### *Scratch and Clean parameters for enhanced processing*

The STAR-1100 Scratch and Clean Process has been enhanced differentiate among several virtual tape types and to apply appropriate additional special processing associated with each virtual tape type. The new Scratch and Clean parameters are:

RANGE=volume-volume,POOL=ctl\_pool\_name,VTL=YES

The range parameter is used to identify the VSM, MAS and VTL virtual media types. The range parameter can be specified with or without a pool identifier. If you specify VTL=YES, you must also provide a pool identifier.



## Automatic Attribute Feature Enhancements

### *AAF support for 8 selection fields*

AAF has been enhanced to allow 8 TIF fields to be used as selection criteria. Previous levels only allowed 4 of 8 possible fields. Now all 8 fields are allowed. The 8 fields are QUAL, FNAME, ACCTNO, RUNID, PROJID, USERID, CMACID and POOLID.

To utilize the new AAF feature, the AAF parameters in the AAFFARM element must be edited to be changed into the new format. The AAF process is backward compatible and will continue to function with the old 4 AAF parameters and format.

## LABEL Processor Enhancements

### *New EBCDIC, Print, Read and Flist functions and enhancements*

The Label processor has been enhanced to optionally add foreign volume records to the TIF and to interpret EBCDIC labels. Additionally, the LABEL processor has been enhanced to provide four new functions.

1. The EBCDIC Label Function creates EBCDIC volume labels
2. The Print Label function now provides information from the TIF and MFD (if cataloged) as well as the Label. Thus, the same tape attributes can be compared as represented in the different locations (LABEL, TIF, MFD.)
3. The Read Label function reads the volume labels and add/or updates a TIF record based on the LABEL contents.
4. The File List function (Flist) scans the entire volume and, using label information, displays a summary line for each file. If the first record of the file is a recognizable header, Flist also displays information from the header. Recognizable headers include COPYG., FAS, IRU, SDF, and PCIOS.

## New Paperless Support

The STAR-1100 Product runstreams have been enhanced to help sites going in a paperless direction.

1. A new generation parameter QUEUE can be used to set the print queue to be used on @SYM statements or can be set to NOSYM\$ to prevent the printing of the report.
2. The RPTOPT generation parameter has a new optional value of 0 to prevent the automatic starting of REPORTSRUN.
3. A new editable ECL element FILECYCLES in SYSS\$LIB\$\*STAR-2, allows for the easy setting of the maximum file cycles for all files created by STAR-1100 including all report files. The default value has been set to 7 cycles.

## New STAR-1100 Generation Parameters

The STAR-1100 Product has several new generation parameters.

Parameter	Default Value	Installation Guide Page
AAFFLD5	PROJECT	3-11
AAFFLD6	USERID	3-11
AAFFLD7	CMACID	3-11
AAFFLD8	POOLID	3-11
CLEV	0	3-14
COMAPILIB	SY\$LIB\$*COMAPI\$LIB	3-10
QUEUE	PR	3-18
STRKEYFLE	SY\$LIB\$*STAR\$KEYFILE	3-26
TRKSSBDI	0400405	3-29
TRKSSDFLE	SY\$LIB\$*STAR\$TRKDEF	3-29
TRKSUBFLE	SY\$LIB\$*STAR\$TRKLIB	3-29

## New values for STAR-1100 Generation Parameters

The STAR-1100 Product has several new values for previous generation parameters.

The RPTOPT parameter can now optionally be set to 0 if you do not want to automatically start REPORTSRUN from STDBKRUN.

The STRSSDFLE default parameter value has been changed from SY\$LIB\$\*STAR to SY\$LIB\$\*STAR\$SDEF.

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## Discontinued Features

### STARPC and STARPC background Server

The old 16-bit Info-connect STARPC has been decommitted and discontinued. The STARPC SERVER process in the STAR-1100 Background run has been replaced by a new server process (Scratch Pool Selector Sever), used by the STAR Library Manager.

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## Media Manager

You should contact Unisys to obtain the most recent EMU level of the MMGR (Media Manager).

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## STAR-1100 Notes Of Interest

STAR-1100 corrections described by Notes of Interest through number 135 are included in level 8R1.

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## Restrictions and Limitations

The non-flagging version of the ACOB compiler (Level 5 or above) is required to generate this release of STAR-1100.

The STAR background run, the SLS process, and any other STAR-1100 runs including LABELPRINT and LIBSYNCH must be terminated prior to installation of the STAR product or installation of the URTS product.

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## Compatibility

The STAR-1100 level 8R1 Release Tape must be registered and built with COMUS.

The STAR-1100 level 8R1 Generation requires that the:

1. STRSSDFLE and STRFLE parameters must be different. The new default value for STRSSDFLE is SYS\$LIB\$\*STAR\$\$\$SDEF
2. IBANK generation parameter must be set to at least 037000.
3. DBANK generation parameter must be set to at least 0140000.
4. SLS\$ENT generation parameter must be set to at least 070000.

When STAR level 8R1 is registered and built in the same COMUS database as previous STAR levels it will automatically convert the previous parameters to the new default values and add any new parameters, set to their defaults.

STAR-1100 Level 8R1 SLS is completely compatible with STAR-1100 level 7R3 and 7R2 SLS.

Release 8R1 is generated under CP OS 2200 11.2 and tested under CP OS 2200 11.2 configured with Security Option 1 and Security Option 2.



**CAUTION** STAR-1100 Level 8R1 has new installation files, subsystems and a software license key that requires a specific required migration path from previous STAR-1100 software levels. Please read the Migration Section carefully.

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# Migration

The migration to STAR level 8R1 from previous STAR levels requires several steps be performed prior to the installation.

## Step 1. System Identification for License Key

When STAR level 7R3 is currently installed, execute the STARINFO processor in SYSS\$LIB\$\*STAR on OS2200 partition and send the unique system identifier from each partition to [star@formula.com](mailto:star@formula.com) requesting a software key providing your site information.

If you do not have STAR level 7R3 installed, please see the prior level note in Step 5.

## Step 2. Release Tape Recreation

Follow the instructions in the “Release Tape Recreation Instructions” document to recreate the release tape on the media of your choice from the CD or other source of your 8R1 release.

## Step 3. Register the Release Tape in COMUS.

Assign the release tape and Register it with COMUS in your existing COMUS database where you have previously generated STAR. If you need to register in a new COMUS database and still have access to the old COMUS database file COMFIL, then perform the following statement so that your old configuration can be migrated.

```
@COPY,S <old qualifier>*COMFIL.DEFSET/STAR7R3,<new qualifier>*COMFIL.
```

## Step 4. Build STAR level 8R1.

Perform a COMUS Build of STAR level 8R1. Your previous parameter values will be automatically migrated. At the “Update Type 2 SGS parameters” prompt answer Yes to review the parameters. Then start the COMUS Build.

## Step 5. Retrieve the Pre-Installation script.

Assign the generated STAR output master tape and COPY,G the first file to a temporary file. Copy and save the PRE8R1-MIGR/SECMGR to a cataloged file. Use SIMAN or SECMGR and determine the current userid that owns SYSS\$LIB\$\*STAR.

If the owner is currently STAR-SS, then edit the PRE8R1-MIGR/SECMGR script changing STAR-SS to STAR-SS2 and then change STAR-CBS to STAR-SS.

If the owner is currently other than STAR-CBS, then edit the PRE8R1-MIGR/SECMGR script changing STAR-CBS to the current userid that owns SYSSLIB\$\*STAR.

Remove the MSG,W on line 2 and run the ECL under the security administrator.



**Prior Level Note** Release levels of STAR earlier than 7R3 do not contain the utility with which you gather system information in order to obtain a software key. However, the STARINFO utility is found in the 5<sup>th</sup> file of the STAR 8R1 Output master. Copy (COPY,G) this file to a temporary file, then execute the STARINFO utility and perform Step 1 to obtain you license key.

## Step 6. Edit the STAR License Key file.

After the license keys have been received as a result of Step 1, the license keys need to be inserted into the STAR License key file created in step 5. The STAR License Key file is a flat file (not a program file). The license keys should be inserted without any prefix (KEY=). You may add comments on the same line as long as they are preceded by space period space. Multiple keys for multiple systems can be maintained in the file and the correct one will be selected.

Example:

```
@ED,UQ SYSSLIB$*STAR$KEYFILE.
I 03DD0E060F47412A72C6E2D2F03454184 . SYSB
I 07D903040F42412A72C6E2D2F03454184 . SYSC
I 05FE0E1E01879D2E72B262A2F0105028D . SYSA
EXIT
```

## Step 7. Install STAR level 8R1.

Use either the INSTALLPKG runstream or SOLAR to register the STAR 8R1 product. Install the STAR 8R1 Output master taped created in Step 4.

### TIFMAP MAPPER Interface

If your site uses the STAR TIFMAP MAPPER interface, you must RETRIEVE the new TIFMAP-L MAPPER run from SYSSLIB\$\*STAR-2 into MAPPER. Please review TIFMAP Installation procedure in Section 5 of the *STAR-1100 Installation Guide*, FP-102.

### STAR QLP Interface

If your site uses the STAR QLP Interface, you must run TIFSDFRUN to create a new TIFSDF file and use the new STAR-1100 schema that is installed. By using both the new TIFSDF and STAR-1100 schema, any field definition mismatches will be avoided for fields that have been added.

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## Migration and Fallback

### STAR License Key File

The STAR License Key file should be saved prior to falling back to a prior level so that it can be restored before moving back up to STAR level 8R1.

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## Previous Level Support

Prior levels of STAR-1100 currently supported include 7R3.

FCI will support all STAR-1100 release 7 levels until June 1, 2010.

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## Documentation

Documents provided with release 8R1 include:

- *STAR-1100 Installation Guide*, FP-102-R13
- *STAR-1100 Shared Library Subsystem User Guide*, FP-098-R7
- *STAR-1100 Programmer's Guide*, FP-104-R11
- *STAR-1100 Operations Guide*, FP-103-R13
- *STAR-1100 Expert Library Manager Subsystem User Guide*, FP-166-R2
- *STAR-1100 Utilities Subsystem User Guide*, FP-167-R3
- *STAR-1100 Conversion Utilities User Guide*, FP-168-R1
- *STAR-1100 Virtual Tape Implementation Guide*, FP-169-R1

If your site has a DSI Virtual Tape Library and is using STAR Library Manager, you will find the following document helpful:

- STAR Library Manager Installation and Administrator Guide, FP-161-1R1.

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## FCI Website

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

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## FCI Support Center

Effective with the release of STAR-1100 7R1, the FCI Support Center (FCISC) is available for use. The FCISC is a 2200 host server software system that is accessible by using the standard UNISYS Remote Site Support (RSS) product. It allows you to send and receive data electronically to and from FCI. Refer to the *STAR-1100 Installation Guide* for more information.

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## Ordering Instructions

To order your site's copy of STAR-1100 8R1, 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-1100 8R1 electronically by addressing your e-mail to:

[sales@formula.com](mailto:sales@formula.com)

*or* Order STAR-1100 8R1 through the Formula Consultants website at:

[www.formula.com](http://www.formula.com)

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## Corrections

Corrections integrated with this release of STAR-1100 are contained in the COMUS change file, which is file 19 of the release tape.

File 23 of your cartridge release tape contains PCRs, 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.

When released on CD, the latest PCRs are in the UPDATES directory of the CD. The STAR8R1.TCF file is program file which is FTPed to the OS2200 using Binary TASC format.

The PCRs are organized by STAR-1100 subsystem and processor type (basic mode or UCS) in elements that can be @ADDED following an @COMUS to enter the corrections into your local COMUS database. You should examine the file to determine the elements that should be added to your build.

-  **Note** The elements README, CHGNUM-ss/version, CHGNUM-ALL, STAR-NOIS, CSC-EMUS, and MMGR-EMUS are informational only and should not be @ADDED to your COMUS database.

The possible elements in File 18 are:

README	explanation and cutoff date/time
ADD/SGS	changes for the 'additional SGS' build prompt
ALS/ <i>version</i>	Automated Library Subsystem
BASE/ <i>version</i>	changes not associated with a subsystem
EXLM/ <i>version</i>	Expert Library Manager Subsystem
LAB/ <i>version</i>	Label Printing Subsystem
QLP/ <i>version</i>	QLP Subsystem
SLS/ <i>version</i>	Shared Library Subsystem
VMS/ <i>version</i>	Vault Management Subsystem
UTL/ <i>version</i>	Star-1100 Utilities Subsystem
CHGNUM-ss/ <i>version</i>	list of change numbers by subsystem and version
CHGNUM-ALL	list of all change numbers
RELATED	compatibility related corrections
STAR-NOIS	all relevant Notes of Interest
MMGR-EMUS	all Media Manager EMU Release descriptions
CSC-EMUS	all CSC EMU Release descriptions

**where:**

*version* can be BASIC or UCS. The CHG numbers generated by COMUS must be entered at the “New Change number” build prompt. You can 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.

Beginning with STAR-1100 level 8R1, File 18 of your release tape also contains Notes of Interest in the element called STAR-NOIS. Notes of Interest are field bulletins which we recommend reading prior to generating or installing STAR. Also included are all Media Manager EMU Release descriptions in an element called MMGR-EMUS, and CSC EMU Release descriptions in an element called CSC-EMUS.



# Product Order Form

PRODUCT: STAR-1100 8R1

CUSTOMER: \_\_\_\_\_

DELIVERY ADDRESS: \_\_\_\_\_

CITY, STATE: \_\_\_\_\_

ZIP CODE: \_\_\_\_\_

CONTACT: \_\_\_\_\_

TELEPHONE NUMBER: \_\_\_\_\_

LAST STAR-1100 LEVEL RECEIVED: \_\_\_\_\_

## General Releases

The OS 2200 Software for STAR-1100 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-1100 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

- All tapes will be unlabeled.

### Standard Media

- 18-track cartridge                       36-track cartridge                       DVD  
 Electronic via RSS and the FCI Support Center

*Use SYSSLIB\$\*STAR-2.NEW-RELEASE/RSS-SCRIPT to copy to local tape.*

### Non-Standard Media

STAR-1100 can also be delivered on non-standard media (such as a 9840 A/B/C cartridge) supplied to FCI by the customer, provided FCI has compatible equipment. Please contact FCI to confirm such non-standard availability.

## Corrections

Please indicate the media FCI should use when sending your site minor corrections. Indicating diskette will mean you have the capability of uploading ASCII files from a PC to the mainframe.

- Diskette                                       CD     E-mail  
 Electronic via RSS and the FCI Support Center