

*ETI•EXTRACT™ Data System Library
Release Notes*

*ETI•EXTRACT Data System Library
for C/INFORMIX
Release 1.1.3
September, 1996
For ETI•EXTRACT Release 3.0*

These release notes provide information that supplements the *ETI•EXTRACT Data System Library Handbook for C/INFORMIX* and *ETI•EXTRACT Data System Library Installation Guide* for Release 1.1.

ETI•EXTRACT™ Data System Library Release Notes for C/INFORMIX

Release 1.1.3 — September, 1996

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Serial Number: **EXT-UNIX-111-11-D-INF-ENG-RN**

Contents

Introduction	4
Related Documentation	4
Notes	4
Support for the real_db_name Conversion Property.....	4
Considerations	4
SQL I/O Error CIPs	5
Differences Between Versions of the DSL for ETI•EXTRACT Releases 2.4.x and 3.0.x.....	5

Release Notes

Introduction

These *Release Notes* provide information about Release 1.1.3 of the ETI•EXTRACT Data System Library (DSL) for C/INFORMIX. Should you encounter difficulty in using the DSL for C/INFORMIX, have questions regarding the documentation, or have feedback or suggestions that can help us improve our product, please contact the ETI AnswerLine. North American customers can call **1-800-856-0416** or **512-327-6994 extension 450**, or send email to **eti.answerline@evtech.com**. European customers can call the ETI Answerline in the United Kingdom at **01-344-382-135**, or send email to **answerline-europe@evtech.com**. ETI's World Wide Web address is **<http://www.evtech.com>**.

Related Documentation

The *ETI•EXTRACT Data System Library Handbook for C/INFORMIX* contains detailed information about the DSL.

The *ETI•EXTRACT Data System Library Installation Guide* provides information about installing ETI•EXTRACT DSLs.

Notes

This section contains information which supplements that found in the *Data System Library Handbook for C/INFORMIX*.

Support for the real_db_name Conversion Property

The templates support the use of the **real_db_name** conversion property. Set the value of this conversion property to the actual name of the INFORMIX database to connect for the conversion. This conversion property does not exist by default. You must create it at the database or conversion level.

Considerations

The following list describes some items for consideration about the DSL for C/INFORMIX:

- ❑ The **INTERVAL** and **DATETIME** INFORMIX data types will be fully supported at a later time. Currently, the Retrieve-Schema process retrieves the information for the **range_of_operation** context variable but template support for using the context variable is still needed.
- ❑ The bulk load capability does not generate the `NULL= value` clause that is required to load null data.
- ❑ There is no table lookup capability in this release.
- ❑ The DSL for C/INFORMIX does not currently provide support for virtual parts.

SQL I/O Error CIPs

SQL I/O error checking is supported with standard messages and with Code Insertion Points (CIPs). The CIPs control whether or not the transaction(s) will end with COMMIT or ROLLBACK. The CIPs involved are:

- ❑ `cip_post_insert_failed`
- ❑ `cip_post_update_failed`
- ❑ `cip_post_delete_failed`

Default settings result in COMMITs after I/O errors. If ROLLBACK is preferred, these CIPs can be deleted or renamed. If particular errors need particular treatment, these CIPs can be coded to support it.

Differences Between Versions of the DSL for ETI•EXTRACT Releases 2.4.x and 3.0.x

Versions of the Data System Library for C/INFORMIX are available for use with both releases 2.4.x and 3.0.x of ETI•EXTRACT. This section outlines the major differences between the two versions of the DSL. Additional information about the two releases of ETI•EXTRACT is available in the documentation accompanying the software.

Note: The Handbook for the Data System Library for C/INFORMIX describes only the version of the DSL supported by ETI•EXTRACT Release 3.0.x.

The following are the major differences between the two versions of the DSL:

- ❑ In the version for ETI•EXTRACT 2.4.x, C language functions are used rather than the Tcl functions used in the version for ETI•EXTRACT 3.0.x.
- ❑ No .pdf (Adobe Acrobat Reader) files are available for the Handbook and Release Notes in the 2.4.x version of the DSL.
- ❑ The C Intermediate Actions (cia) product is shipped as part of the ETI•EXTRACT 2.4.x version of the DSL for C/INFORMIX. It is not a separate DSL product as it is in the version used with ETI•EXTRACT 3.0.x.

- The path to the Unit of Work (uow) directory in the ETI•EXTRACT 2.4.x version of the DSL is:

```
${EXTRACTPATH}/exdb/das/informix/uow
```

- The path to the cips.ctl file in the ETI•EXTRACT 2.4.x version of the DSL is:

```
${EXTRACTPATH}/exdb/das/informix/gram/cips.ctl
```

- The process of converting the INFORMIX database schema information into a format usable by ETI•EXTRACT is different in the version for ETI•EXTRACT 2.4.x from that described in the Handbook for the DSL. Follow the steps described in Chapter 2 of the Handbook to obtain the three text files of INFORMIX schema information (Informix_Schema.txt, Informix_RI_Dependencies.txt and Informix_Indexes.txt) in a single directory on the ETI•EXTRACT host. Then follow the steps described below:

- If necessary create an installation directory in UNIX to store the ETI•EXTRACT schema information for the database. To do that use the command:

```
mkdir ${EXTRACTPATH}/exdb/das/informix/schema/<installation-name>
```

- Move (cd) to the directory containing the three INFORMIX text files and use the command:

```
${EXTRACTPATH}/exdb/das/informix/rs_informix <installation-name> <db-name>
```

- Next, use the Environment Editor (ee) to add the installation (if necessary) and the database information to the ETI•EXTRACT environment. See the *ETI•EXTRACT Master's Guide* for more information on using the Environment Editor.

ETI•EXTRACT Data System Library™ for C/INFORMIX®

Revised Date: September 13, 1996
 Release Number: 1.1.3
 Release Status: Generally Available
 DSL Certification: Category 3
 Access Language: INFORMIX-ESQL/C®
 Versions Supported: INFORMIX-OnLine® version 7

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DAS-Specific Program Features

Templates	Query	Single-Step	Populate	Create
Example JCL/Shell Scripts	√	√	√	√
Program	√	√ ¹	√	√
Customization	Query	Single-Step	Populate	Create
Custom Templates	√	√	√	√
Access Methods	Query	Single-Step	Populate	
Indexed	n/a	n/a	n/a	
Navigational	n/a	n/a	n/a	
Relational	√	√	√	
Relative	n/a	n/a	n/a	
Sequential	n/a	n/a	n/a	
Storage Formats	Query	Single-Step	Populate	
Multiple Record Types	n/a	n/a	n/a	
Positional Hierarchy	n/a	n/a	n/a	
Redefine Depends	n/a	n/a	n/a	
Redefined Fields	n/a	n/a	n/a	
Conversion Features	Query	Single-Step	Populate	Filter
Aggregation				
Alpha checks				
Auxiliary Source				
- Table Lookup				
- Database Lookup				
- Run File				
- Key File				

√=The feature is supported for the listed program type. • blank=The feature is not supported for the listed program type. • n/a=The feature or function is not applicable for the specified program, data access system, or programming language. • (n)=Further explanation is found in note number n, which follows at the end of the feature matrix listing.

Conversion Features (cont.)	Query	Single-Step	Populate	Filter
Auxiliary Target Sequential				
Bulk load				
- Control card	n/a		√	
- Files	n/a		√	√
- Programmatic	n/a			
Code Insertion Points (CIPs)	√	√	√	√
Condition (IF) grammar				
- Pre-move	√ ²	√ ²		√
- Post-move				
Custom area filter	√	√	√	√
Date formatting				
Driver file				
Error handling				
Header/Trailer processing				
Hierarchy Inversion				
Host array processing				
Hybrid and regular populate modes				
- Data Driven				
- Delete		√	√	
- Delete Then Insert				
- Extend				
- Insert		√	√	
- Insert or Update		√	√	
- Replace		√	√	
- Update		√	√	
- Update or Insert		√	√	
Independent/Dependent sources				
Modify-value grammar				
- Arithmetic		√	√	√
- Current date				
- String concatenate		√	√	√
- String split (UNSTRING)		√	√	√
Merge multiple databases				
Multi-Cursor Option				
Normalize				

Conversion Features (cont.)	Query	Single-Step	Populate	Filter
NULL processing				
- Propagate NULL values	√	√	√	
- Set NULL indicator			√	
- Test NULL values	√	√		
Numeric checks	n/a			
Secondary Source Tables	n/a	n/a	n/a	n/a
Sequence names				
Sort-Before-Populate				
SQL functions	√			
Subroutine Calls				
Table Lookup				
- Check existence				
- Return value				
- Condition-Then-Lookup				
- Lookup-Then-Condition				
- 1 Level Subselect				
- Multiple Level Subselect				
Unit of Work control logic ³		√	√	
User Read Module				
- Single record type	n/a	n/a	n/a	
- Multiple record type	n/a	n/a	n/a	
Virtual Parts				
DAS Data Types	Maps to EX Type	Using C		
blob				
char	string	char[]		
date	date	char[]		
datetime				
decimal	decimal	double		
float	float	double		
integer	integer	long int		
interval	string	char[]		
money	decimal	double		
serial	integer	long int		
smallfloat	float	double		
smallint	integer	long int		
text-blob				
varchar	varstring	char[]		

Documentation	Availability
DSL Handbook	√
DSL Installation Guide	√
DSL Release Notes	√
Tools and Utilities	Availability
Dynpro Painter field support	n/a
Finish grammar	
Modify schema grammar	
Retrieve-Schema functions	
- Copybook cleaner	
- Copybook flattener	
- DDL script cleaner	
- Sort for Referential Integrity	√
- Table qualifier with Owner name	
- Table qualifier with DB name	
Retrieve-Schema type	
- Created from an executable program	
- Parse copybook	n/a
- Parse DDL statements	
- Parse flat file	
- SQL script to retrieve data	√

C Intermediate Action Program Features

Templates	Sort	Merge	Split
Example JCL/Shell Scripts	√	√	√
Program	√	√	√
Customization	Sort	Merge	Split
Custom Templates	√	√	√
Access Methods	Sort	Merge	Split
Sequential	√	√	√
EX Type Data Types	C		
date	char[]		
datetime	char[]		
decimal	float		
float	float ⁴		
integer	int		
string	char[]		
time	char[]		
varstring	char[]		

¹ Single-step is not supported if the INFORMIX database was created in ANSI mode.

² Implemented as a WHERE clause on the SQL SELECT statement.

³ This coordinates the populate of specified tables so commits span more than one table and occurs when common key values change.

⁴ Sorting on float fields is currently not supported in the C Intermediate Action's generated sort program.



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