

HarnesSys<sup>TM</sup>

# User Manual for the **UPDATE WIRES** Program

IAI Publication Number TSN140/930359



#### Notices

The information contained in this manual is believed to be accurate and reliable. However, Israel Aircraft Industries Ltd. (IAI) assumes no responsibility for any errors, omissions, or inaccuracies whatsoever.

Information in this document is subject to change without notice and does not represent a commitment on the part of Israel Aircraft Industries Ltd. (IAI). The software and/or data base described in this document are furnished under a license and/or agreement. The software and/or data base may be used or copied only in accordance with the terms of such license and/or agreement. It is against the law to copy the software on any medium except as specifically allowed in the license and/or nondisclosure agreement. The purchaser may make one copy of the software for backup purposes. No part of this document and/or data base may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or information storage and retrieval systems, for any purpose other than the purchaser's personal use, without the express written permission of IAI.

1993 Israel Aircraft Industries Ltd. All rights reserved.







Pub. Number TSN140/930359 Issue B Revision 0

December 1997

# **List of Effective Pages**

At present, there is a total of 21 pages in this user guide, as detailed below:

Pages	<b>Revision No.</b>	Date Issued
Title	0	31-12-97
ii-ix	0	31-12-97
1-21	0	31-12-97

Revision No. 0 is the original printing of the user guide.

Issue "B" replaces issue "A" entirely.

Please make sure that your copy of this user guide contains the correct pages.

# **Record of Changes and Revisions**

Doc. Change No.	Date Issued	Title & Description	Date Change Made	Signature

# **Record of Changes and Revisions (Cont.)**

Doc. Change No.	Date Issued	Title & Description	Date Change Made	Signature

### Foreword

This user guide is one of a set of user guides that make up volume 3 of the Harness user documentation. Below is a description of the volumes of the Harness user documentation:

Volume 0 - Overview

Volume 1 - Schematics

Volume 2 - Layout Drawing

Volume 3 - Wiring

Volume 4 - Parts

Volume 5 - Integration

Volume 6 - Management and Configuration Control.

Volume 7 - Manufacturing.

Volume 8 - Technical Publications.

### About this User Guide

This user guide describes the operation of the Update Wires program. Below is a brief description of the sections that comprise this user guide.

#### Introduction

This section provides general information about the input and output of the Update Wires program, wire status, bundle and wire issue. It also contains diagrams of a typical bundle and wire life cycle.

#### Invoking the Update Wires Program

This section describes the access path to the Update Wires program.

#### **Prompts and Messages**

This section describes the prompts and messages displayed during update.

#### **The Update Process**

This section describes the Update process, by presenting the wire in the data base before update, the operation to be performed, and the updated wire.

#### **Error and Information Messages**

This section lists the error and information messages issued by the Update Wires program. For each error message, the cause of its appearance and the corrective action to be taken by the user are provided.

# Conventions

The following conventions are used in this guide:

	Italic text is used to to indicate a word or phrase which has a special
Italic text	meaning with respect to Harness, such as the name of a menu or option.
	Italic text is also used for examples. Smaller italic text is also used for
	notes and helpful hints: these are also indicated by an icon (see below).

- **Bold text** Bold text represents the exact text that you, the user, are supposed to enter.
- **Bold italics** Bold italics is used for emphasis.

COURIER Text printed in Courier font represents text that appears on your screen.



Indicates a note.



Indicates an example.



Indicates a helpful hint.



Indicates additional information.



Indicates cautionary text or a warning. Both types of text are framed in a box. A Warning, however, is printed on a raster (gray) and has the title "WARNING!".



Indicates an operation that you, the user, are to perform. Operations in a series are also numbered.



Indicates what you should see on the screen - the computer's response.



 $\mathcal{A}$ 

Indicates a key on your keyboard.

rightarrow 
ightarrow Indicates a path to take. This usually entails selecting a number of options from menus.

Indicates the end of the user guide.

# Contents

Introduction 1
The XXX.trn file 1
Wire Status 2
Bundle and Wire Issue 2
The XXX.wupd File
.wupd messages 4
A Typical Bundle Life Cycle 4
Defining the Bundle 5
Adding New Wires 6
Changing Wires (before Release) 6
Releasing the Bundle 6
Changing Wires7
Deleting Wires7
Canceling the Delete Request 8
Deleting Wires 8
Releasing the Bundle9
Changing Wires9
Invoking the Update Program 11
The Update Process 15

# Contents

Error and Information Messages 19	9
-----------------------------------	---

# **Contents (Cont.)**

# Introduction

The Update Wires program applies the changes contained in a xxx.trn (transaction) file to the Wires Table. It can add new wires, update fields of existing wires, and delete wires



The Wires Updating Process

### The XXX.trn file

The xxx.trn file includes data on wires, which may belong to different bundles and different schematic diagrams. The data are:

- The wire key fields (Effectivity, Wire Bundle, Dash, Wire Name and Color)
- The change code (A -- add, C -- change, or D -- delete)
- The fields required to perform the update.

For *adding* a new wire, the xxx.trn file should at least contain the wire key fields. For *changing* a wire, the xxx.trn file must at least contain the key fields and the new values of the fields to be changed. A field to be deleted should contain the # character. For *deleting* a wire, the xxx.trn file must at least contain the key fields. However, if the xxx.trn file is prepared by the Wires Integration program, it always contains all wire fields.



The **wire key** fields (Effectivity, Wire Bundle, Dash, Wire Name and Color) cannot be changed. The only way to change them is to delete the wire and add a new wire with the new key fields.

WIRE\_KEY=244, BUNDLE=1221, DASH=001, WIRE\_NAME=--JP00005, TYPE\_FAM=A, TYPE\_ ^,TO\_CONNEC=123YJ, TO\_PIN=74, ACD=C, STATUS=0, LCD=1993/03/28 12: 9:31; WIRE\_KEY=245, BUNDLE=1221, DASH=001, WIRE\_NAME=--JP00006, TYPE\_FAM=A, TYPE\_ ,TO\_CONNEC=123YJ, TO\_PIN=65, ACD=C, STATUS=0, LCD=1993/03/28 12: 9:31;

#### XXX.trn File Portion

During operation, the Update program alters the following wire fields:

- Wire status
- Bundle issue
- Wire issue.

### Wire Status

Wires in the data base are either *open* or *released* (the Status field contains "O" or "R"). Released wires may be used by external users, e.g., production departments. Open wires may be used by external users, only after an authorized user "Releases" them. In order to allow notifying the production departments, wires are updated in two stages:

- 1. The update intention (add, change or delete) is registered on an open copy of the wire.
- 2. The update intention becomes "reality" upon Release.

### **Bundle and Wire Issue**

When performing Update for the first time after *Release*, the *bundle issue* in *Top Drawing* is incremented and the *bundle status* becomes Open. Further updates do not change the bundle status and issue. The program fills the *issue* of the *wires* included in the current xxx.trn file with the bundle issue. This causes that different wires of the same bundle may have different issues.

The Issue filed may have the following values: NEW, A, B ... Z, AA, AB ... ZZ, AAA, AAB ... ZZZ.

Wire Status



*The user can define exceptions, e.g., I or O. These values are stored in the Projects Table. When incrementing the Issue filed, these values are skipped.* 

### The XXX.wupd File

The xxx.wupd is a detailed report of the update process. It includes the wires before the change, the wire after the change and the difference between them. It also includes [error] messages. It is good practice to check this file before confirming the update operation.

Each wire includes the key fields, the fields to be changed (if applicable) and the change request (ACD code).

		WIRES date	UPI = 19	DATE F 997/09	'ILE 1/29 15	:06:	01 						:									
1;	50   	EFFECTIVITY FROM PART	BI	NDLE	DASHI M.CDIC	WIRE OM F	NAM 1  F	E 2   F	GA S	STICC STICC	)LR	TF	TSIS	S1	S2 GNAL	\$3	PRE	ESSURE SEA	L   ЕМ	WIRE	DIAGRAM	A S
	I	TO PART	[P]	IN  TF	M.CDIC	OM   F	1  F:	2   F	'3   ASS	Y  S	SYS.	l SU	BS	I	DA	TE I	7ND	TIME	RET	AINED RUI	N LETTER	
REMOVI THE W		A LINK TO CU HAS LINK(S DKC-WD310	RRE1 ) T( 12-I	NT SWE D THE B	FROM FOLLOP	WIRE IING	NAM SWD ( )	E R S):	20000	0031	L1C, D	i KCE	n W] A000	1R 01	E LI -000	ST 3	3101	12, DASH 0	001	·		
Wi	1RI	IING: YOU CH ACD-CODE WA:	ANGH S -1	ED A F A- IT	ECORD REMAIN	THAT IS –A	WAS	NE	VER F	ELE	4SED											
DIF	ı		13	31012	0001 1	2000 2000	0003	130	: I	Т	I	I	I		Т		I		ī			111
	I		1	I	I	I	I	I	I	11									I	I I		
	I		I	51	I	I	I	I	I	11		1		I				I				
OLDI	*1		13	31012	0001 F	D000	0003	130	:1221	1	I	A	AI		1	1 1	 I		1		DKC-WD310	12-A A O
	I	p10	11	A	I	I	I	I	I	П									1	I I		
	I	p10:	21	11	I	I	I	I	I	П		I		I	1997	/09/	/25	15:13:26				
NEW	*1		13	31012	0001 F	D000	0003	130	: 22	I	I	   A	AI		1	1 1	I		1		DKC-WD310	12-A A O
	I	p10	11	Aļ	I	I	I	I	I	11									1	I I		
	I	p10	21	51	I	I	I	I	1	11		1		I	1997	/09/	/29	15:06:00				
THE W ALREA	I RE	E NAME RD000 LINKED TO T DKC-WD310	0003 HE I 12-I	312C, FOLLOW B	in WI WING SF	REL ID(S)	1 ST :	310	)12 <i>,</i> I	DASH	000 D	2 KCE	:A00	01	-000	1						
ADD	*		13	31012	0002 1	2D000	0003	130	:[22]	I	I	A	AI		I	I	1		I		DKC-WD310	12-A A O
		թ10	11	Aļ	I	I	I	I	I	П									I	I I		
	I	թ10	21	51	I	I	1	I	I	П		I		1	1997	/09/	/29	15:06:00				
ADD	*		<u> </u>	31012	0002 1	2D000	0003	150	:1221	I	I	A	AI		I	1	I				DKC-WD310	12-A A 0
		p10	11	Fl	I	<u> </u>	<u> </u>	_I	I										I 	<u> </u>		
===== TO	 	p10 RECORDS PR ADDED CHANGED DELETED LINKED UNCHANGED UNCHANGED	2   COCES RECO RECO RECO RECO RECO RECO	8   SSED = ORDS = ORDS = ORDS = ORDS = ORDS = ORDS = ORDS =	 = 6 = 3 = 1 = 0 = 1 = 1 = 0 = 0			 ====		11		I ====		 ==	1997	/ 09/	/29	15:06:00  				

#### The xxx.wupd File Structure

The contents of this page is subject to the limitations of use specified in the front page.

The XXX.wupd File

#### .wupd messages

Message	Translation
THE WIRE NAME IN WIRE LIST, DASH ALREADY LINKED TO THE FOLLOWING SWD(S)	A new link is established, but this wire is also linked to another drawing.
REMOVE A LINK TO CURRENT SWD FROM WIRE NAME, IN WIRE LIST, DASH THIS WIRE HAS LINK(S) TO THE FOLLOWING SWD(S)	A link from the wire to an SWD was removed, however, other links, to other SWD(s), still exist.
WARNING: YOU CHANGED A RECORD THAT WAS NEVER RELEASED. ACD CODE WAS -A- IT REMAINS -A	The wire was previously modified but since it was never released the status was never changed for the wire. (code -A- was overwritten by code -A-)
WARNING IN ADD_WIRE: CONNECTOR FIELD MISSING ****	A wire was added with missing connector data.
*** ERROR: YOU TRIED TO ADD AN EXISTING RECORD ******	The same record was previously added.
DELETE: THE RECORD WILL BE DELETED IN TIME OF RELEASE	The record was marked for deletion, and will be physically deleted when the record is released.
DELETE: THE OLD WIRE ******	

### A Typical Bundle Life Cycle

This section describes a typical life cycle of a bundle and the wires it contains. The description is accompanied by graphic representation.

The *bundles* are represented by a divided rectangle. The left cell of the rectangle contains the bundle status and the right cell, its issue.



**Representation of Bundles** 

.wupd messages

The bundle status can be Define, Open or Release. The bundle issue can be NEW, A, B, ... Z, AA, AB, ... ZZ, AAA, BBB, ... ZZZ.



Issue ZZZ means that the bundle was deleted.

The *wires* are represented by rectangles, divided into three cells: ACD code, Status and Issue.

ACD CODE	STATUS	ISSUE
----------	--------	-------

#### **Representation of Wires**

The ACD code can be A (add), C (Change) or D (delete). The wire status can be Open or Release. The wire issue can be NEW, A, B, ... Z, AA, AB, ... ZZ, AAA, BBB ... ZZZ.

The bundles are defined in the *Top Drawing*. The wires are drawn in *Schematic Diagrams* and stored in the data base.



Instead of the Schematic Diagram and Wires Integration programs, the Wires Data Base Modification program may be used (Project  $\heartsuit$  Wires  $\heartsuit$  Build Transaction  $\heartsuit$  Screen Mode.

#### **Defining the Bundle**

DEFINE NEW

The user defines the bundle (using **Configuration** ⇒ **Define.** For more information, refer to the Configuration Control User Manual.)

#### **Adding New Wires**

	0	NE	Ν
1. [	А	0	NEW
2. [	А	0	NEW
3. [	А	0	NEW
4. [	А	0	NEW
5.	А	0	NEW

The user draws five new wires in schematic diagrams. Then, he integrates these diagrams and updates the data base with the xxx.trn file, produced by the integration (or another program).

The status of the bundle is changed from Define to Open.

#### **Changing Wires (before Release)**

	0	NEW							
1. [	А	0	NEW						
2. [	А	0	NEW						
з. [	А	0	NEW						
4. [	А	0	NEW						
5. [	А	0	NEW						

The user changes wire number number 1 in a schematic diagram, integrates the diagrams and updates the data base with the xxx.trn file.

The ACD code of the wire remains A, since the bundle was not released yet.

### **Releasing the Bundle**

R		NEW		
1. [	А	R	NEW	
2. [	А	R	NEW	
3. [	А	R	NEW	
4. [	А	R	NEW	
5. [	А	R	NEW	

The user releases the bundle.

The status of the bundle and wires becomes R, but the issue remains unchanged.

The system stores the data of the released bundle in a file, for possible future retrieval.

Adding New Wires

#### **Changing Wires**

0	A	
1. A	R	NEW
2. A	R	NEW
3. A	R	NEW
3. C	0	A
4. A	R	NEW
4. C	0	
5 A	R	
5. A	R	NEW

The user changes wires 3 and 4 in the schematic diagrams. Then he performs wires integration and updates the data base with the xxx.trn file.

Since this is the first Update after Release, the bundle issue is incremented and the bundle status becomes Open.

The Change intention is registered in the ACD field of the open wires 3 and 4, while the released wires remain unchanged.

The Update program fills the Issue of the open wires with the new, incremented bundle issue.

#### **Deleting Wires**



The user deletes wires 1 and 5 from the schematic diagrams. Then he performs wires integration and updates the data base with the xxx.trn file.

The Delete requests are register of the open wires 1 and 5.

The wires will actually be delete

#### **Canceling the Delete Request**

		_	
	0	A	
1.	А	R	NEW
2.	А	R	NEW
3.	А	R	NEW
3.	С	0	А
4.	А	R	NEW
4.	С	0	A
5.	A	R	NEW

The user updates the data base with the xxx.trn file from the previous stage or integrates the previous revision of the schematic diagram.

The system deletes the open wir

#### **Deleting Wires**

	0	A	
1.	А	R	NEW
2.	А	R	NEW
2.	D	0	Α
3.	А	R	NEW
3.	С	0	А
4.	А	R	NEW
4.	С	0	A
5.	А	R	NEW

The user deletes wire number 2 from the schematic diagram, integrates the diagram and updates the data base with the xxx.trn file.

The Delete request is registered the open wire 2.

Canceling the Delete Request

#### **Releasing the Bundle**

	R	A	
1. [	А	R	NEW
з. [	С	R	A
4. [	С	R	A
5. [	А	R	NEW

The user releases the bundle. The system changes the bundle status to Released.

The system deletes the released wires 2, 3 and 4 and changes the status of the open wires 3 and 4 to Released.

#### **Changing Wires**

0		В	
1.	А	R	NEW
3.	С	R	A
4.	С	R	A
4.	С	0	В
5.	A	R	NEW

The user changes wire number 4 in the schematic diagram, performs wire integration and updates the data base with the xxx.trn file.

Since this is the first Update after Release, the bundle issue is incremented and and the bundle status becomes Open.

The Change intention is registered in the ACD field of the open wire. The Issue field of the open wire is filled with the new, incremented bundle issue.

Changing Wires

The contents of this page is subject to the limitations of use specified in the front page.

10

# **Invoking the Update Program**

To invoke the Update program, proceed as follows:

1. Select **Project**  $\Rightarrow$  **Wires**  $\Rightarrow$  **Update.** 

<u>P</u> roject	Docume	nt <u>C</u> onfiguration <u>M</u>
Open		
Import		ts:
Query		2t
Parts	$\triangleright$	
Wires	$\triangleright$	Build Transaction $ ig angle $
Close	Ctrl+Z	Update
Quit	F10	Query
		Report D

The function displays the following window, which already contains the

DCR: Select Transaction File
Transaction files:
DKC-WD31012-A.trn
Selection
DKC-WD31012-A.trn
OK Cancel Help

names of all the transaction files in your private directory.

2. Click on the desired xxx.trn file and on "OK". The function displays the

Invoking the Update Program

Wires Update window:



The following messages appear in this window:



ORACLE\_USER = hrsdp

This is the name of the data base containing the Wires Table.



PROJECT = SDP

This is the project code.



Attention: The wire tables have been locked for updating !!!

The Update Wires program locks the data base until the update process is completed and it does not enable other users to update the data base during the lock.



This is the name of the current bundle. This message appears for each bundle processed.



total : 7 wires done

This is the number of wires contained in the xxx.trn file for the current bundle. If the bundle contains many wires, the program notifies the user every 25 wires.

```
TOTAL_RECORDS_PROCESSED =7

ADDED RECORDS =1

CHANGE RECORDS =1

DELETE RECORDS =1

ERROR RECORDS =0

UN_CHANGE_RECORDS =4
```

These are statistics of the operations performed during Update. According to this message, the xxx.trn file included 7 wire records. One wire was added to the data base, one wire was changed and one wire was deleted. All the wire records in the xxx.trn file were correct, therefore, ERROR RECORDS = 0. 4 records contained information identical to the wires in the data base, therefore, there is no need to change those wires in the data base.



Check REPORT TRANSACTION FILE = <user>/harness/SDP/private/SDP.wupd

This is the exact name of the xxx.wupd file, produced by the update process. <user> indicates the user's home directory.



It is good practice to check this file (in a separate window) before confirming the update process. To open the xxx.wupd file, select **Document**  $\Rightarrow$  **Private**  $\Rightarrow$  **Open**  $\Rightarrow$  **Filter:** \*.wupd  $\Rightarrow$  **OK**.



Enter Y for update wires data in database • else E for exit ?

Confirm the Update by pressing  $\mathbf{Y}$ . or cancels the update by pressing  $\mathbf{E}$ .



If the contents of the xxx.wupd file is not satisfactory, correct the xxx.trn file and resume the Update program.

Invoking the Update Program

## **The Update Process**

The Update process is visually depicted below. Each wire is represented by a divided rectangle. The left cell contains the ACD code of the wire. The right cell contains the wire status. The ACD code may have the following values: A (add new wire), C (change one or more fields of an existing wire) or D (delete an existing wire). The wire status is either Open or Released.



The figure below is arranged in a 4-column layout, as follows:

- **Before:** Indicates the wire (ACD and Status) in the data base, before the update.
- **Operation:** Indicates the operation to be performed on the wire (add, change, or delete). Therefore, for every wire in the Before column, there are 3 rows of Operation. The operation code is the ACD field in the xxx.trn file. The operation name appears inside an arrow.



- After: Indicates the wire (ACD and Status) in the data base, after the update.
- **Description:** Explanation of the update process.



The contents of this page is subject to the limitations of use specified in the front page.

The Update Process



The Update Process



The contents of this page is subject to the limitations of use specified in the front page.

The Update Process

### **Error and Information Messages**

The xxx.wupd file messages are listed below. Messages beginning with dashes (---) are for information only. Therefore, no action should be taken. Error messages begin with asterisks (\*\*\*).

\*\*\* ERROR: IN DOCUMENT DEFINITION - BASE NUMBER OR DASH \*\*\*\*\*

- **Cause:** The bundle is not [properly] defined.
- Action: Check the bundle definition. It should, at least, contain Base Number, Dash and proper Effectivities.

\*\*\* ERROR: ADD\_WIRE : ONE OF BUNDLE/DASH/WIRE\_NAME IS MISSING \*\*\*\*\*

Cause: Part of the wire key is missing.Action: Make sure that all wire key fields (in the message) exist in the xxx.trn file.

#### \*\*\* ERROR: ADD\_WIRE : CONNECTOR FIELD MISSING \*\*\*\*\*

Cause:	From/To Connector or Pin field is missing.		
Action:	Make sure that these fields exist in the xxx.trn file.		

#### \*\*\* ERROR: ADD\_WIRE : ILLEGAL ACD CODE \*\*\*\*\*

- **Cause:** This wire does not exist in the data base. Therefore, the only legal operation is Add.
- Action: Change ACD to "A" or correct the wire key.

#### \*\*\* ERROR: ADD\_WIRE : YOU CANNOT ADD A RECORD WITH THE (#) SIGN \*\*\*\*\*

- **Cause:** "#" in a field indicates that this field should be deleted. This delete request cannot be included in a .trn record with ACD = "A".
- Action: Change the ACD code to "C" or delete the #.

The contents of this page is subject to the limitations of use specified in the front page.

Error and Information Messages

#### \*\*\* ERROR: DEL\_WIRE : ILLEGAL ACD CODE \*\*\*\*\*

**Cause:** The ACD code in the .trn file is D, but there is no wire to be deleted.

Action: Correct the ACD code.

--- DELETE : THE OLD WIRE \*\*\*\*\*

**Cause:** The open wire is deleted.

--- DELETE : THE RECORD WILL BE DELETED IN TIME OF RELEASE \*\*\*\*\*

**Cause:** The program produced an open copy of the released wire, with ACD code = "D". The wire remains in the bundle until Release. Upon Release, it will be deleted.

#### \*\*\* ERROR: YOU TRIED TO ADD AN EXISTING RECORD \*\*\*\*\*

- **Cause:** The wire exists in the data base and the trn record ACD code = "A".
- Action: Change the ACD code to "C" or "D" or correct the wire key.

#### \*\*\* ERROR: CHANGE: ILLEGAL ACD CODE \*\*\*\*\*

Cause: The ACD code in the .trn file is incompatible with the wire in the data base.Action: Correct the ACD code.

#### \*\*\* ERROR: DELETE PART OR PIN NOT ALLOWED \*\*\*\*\*

- **Cause:** A "#" appears in the From/To Connector or Pin field. These fields may not be deleted.
- Action: Delete the #.

#### --- CHANGE: THE RELEASED RECORD IS THE SAME AS THE TRN RECORD \*\*\*\*\*

**Cause:** The wire in the data base and the .trn record (the wire after change) are identical. Therefore, no change is to be performed. The released wire remains unchanged in the data base.

Error and Information Messages

#### --- ATT: YOU CHANGED A RECORD THAT WAS NEVER RELEASED \*\*\*\*\*

**Cause:** This open wire has no released copy in the data base.

#### \*\*\* ERROR: DELETE (#) IN FIELD VALUE \*\*\*\*\*

- **Cause:** "#" in a field indicates that this field should be deleted. This delete request cannot be included in a trn record with ACD = "D".
- Action: Change the ACD code to "C" or delete the "#" character.

#### --- ATT: CHANGE: YOU RE-ENTERED/CHANGED A DELETE RECORD \*\*\*\*\*

**Cause:** This wire is intended to be deleted from the data base (ACD code = "D") and the trn request cancels the delete intention.

#### --- DELETE : YOU HAVE DELETED THE LAST UPDATE \*\*\*\*\*

**Cause:** The open wire is deleted.

#### --- CHANGE: THE OPEN RECORD IS THE SAME AS THE TRN RECORD \*\*\*\*\*

**Cause:** The open wire and the .trn record (change request) are identical. Therefore, no change is to be performed. The open wire remains unchanged in the data base.



Error and Information Messages

# Index

### X

#### A

ACD code, Update rules, 15

### B

bundle issue, 2, 7 bundle status, 2, 7

#### D

data base, locking, 13 delete field content, 1, 19

#### R

Release, 2, 16

### S

statistics, 14

#### Т

Top Drawing, 2 transaction files, 12

### U

Update after Release, 2, 7 Update program, invoking, 11

#### W

wire issue, 2 wire key fields, 2 wire status, 2 Update rules, 15

The contents of this page is subject to the limitations of use specified in the front page.

#### xxx.trn file, 1 xxx.wupd file, 3

HarnesSys Volume 3 Diagrams

# Index (Cont.)

### **Wire Update Manual Comment Form**

Your comments and suggestions help us determine how well we meet your needs and also help us improve the documentation. Please fill out this form and fax it to:

Date:				
Address:		Phone	2:	Fax:
Name:		Comp	pany:	
Comments				
How Frequently do y	ou use this manual?			
		Is the manua	l easy to read (page ]	layout)?
		Are the exan	nples helpful?	
		Are there en	ough examples?	
		Can you easi	ily find what you wa	nt?
		Is the order of	of the topics logical	
		Is it easy to 1	inderstand?	luce.
		Is the technic	an an the information	n you need about the topic?
		Does it cont	anual cover all the to	pics you need?
How do you like this	manual? (I-Poor, 10-Excell 1 2 3 4 5 6 7 8 9 10	ent)	1	. 10
TT		4)		
	$\Box$ 10 learn the product or	program	□ For quick look-u	ıp
	$\Box$ As an overview		□ For comprehens	ive reference
How Do You Use Thi			_	
II D. V II Th	- Marria 19			
	$\Box$ Programmer $\Box$ Other			
			□ Data entry perso	onnel
	Project manager		Engineer (wiring	g designer)
Who Are You?				
	HARNESS Project Manag Israel Aircraft Industries Engineering Center Department 2420 Fax: 972 - 3 - 935-5049	er		

Thank you for your time.