

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

DIL1 TEST SCRIPTS

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1 REVISION HISTORY

Release Status	Rev. #	Date	Author/ Reviser	Group	Description of Changes
Draft	0.8	8 July 2006	FET	Engineering	Initial Draft.
First release	0.9	10 July 2006	FET	Engineering	Engineering release
Update	1.0	13 July 2006	FET	Engineering	Update to scripts, release to RIOLAB
Update	1.1	14 July 2006	FET	Engineering	TOC
Update	1.2	31 Jan 2007	FET	Engineering	Update

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TABLE OF CONTENTS

1 REVISION HISTORY2

2 INTRODUCTION6

 2.1 Purpose6

 2.2 Background6

 2.3 Related Documents6

3 TEST SCRIPTS7

 3.1 Overview7

 3.1.1 Comments7

 3.1.2 Commands7

 3.1.3 Command Parameters7

 3.2 Command Descriptions7

 3.2.1 User Prompt7

 3.2.2 Maintenance Read8

 3.2.3 Maintenance Write8

 3.2.4 Read Request9

 3.2.5 Write with Response9

 3.2.6 Write10

 3.2.7 Streaming Write10

 3.3 Checklist Test Script Examples11

 3.3.1 Test Scripts ID 711

 3.3.2 Test Scripts ID 14412

 3.3.3 Test Scripts ID 14912

 3.3.4 Test Scripts ID 18812

 3.3.5 Test Scripts ID 21612

 3.3.6 Test Scripts ID 21713

 3.3.7 Test Scripts ID 22513

 3.3.8 Test Scripts ID 35914

 3.3.9 Test Scripts ID 37514

 3.3.10 Test Scripts ID 37714

 3.3.11 Test Scripts ID 39115

 3.3.12 Test Scripts ID 39215

 3.3.13 Test Scripts ID 39315

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

3.3.14	Test Scripts ID 394	15
3.3.15	Test Scripts ID 395	15
3.3.16	Test Scripts ID 396	16
3.3.17	Test Scripts ID 397	16
3.3.18	Test Scripts ID 398	16
3.3.19	Test Scripts ID 399	16
3.3.20	Test Scripts ID 400	16
3.3.21	Test Scripts ID 401	17
3.3.22	Test Scripts ID 402	17
3.3.23	Test Scripts ID 403	17
3.3.24	Test Scripts ID 427	17
3.3.25	Test Scripts ID 428	17
3.3.26	Test Scripts ID 429	17
3.3.27	Test Scripts ID 430	18
3.3.28	Test Scripts ID 431	18
3.3.29	Test Scripts ID 434	18
3.3.30	Test Scripts ID 435	18
3.3.31	Test Scripts ID 438	19
3.3.32	Test Scripts ID 443	20
3.3.33	Test Scripts ID 448	20
3.3.34	Test Scripts ID 467	21
3.3.35	Test Scripts ID 468	21
3.3.36	Test Scripts ID 469	21
3.3.37	Test Scripts ID 470	22
3.3.38	Test Scripts ID 471	22
3.3.39	Test Scripts ID 472	22
3.3.40	Test Scripts ID 473	22
3.3.41	Test Scripts ID 474	23
3.3.42	Test Scripts ID 475	23
3.3.43	Test Scripts ID 476	23
3.3.44	Test Scripts ID 477	23
3.3.45	Test Scripts ID 478	24

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

3.3.46	Test Scripts ID 479	24
3.3.47	Test Scripts ID 480	24
3.3.48	Test Scripts ID 481	25
3.3.49	Test Scripts ID 482	25
3.3.50	Test Scripts ID 483	25
3.3.51	Test Scripts ID 484	25
3.3.52	Test Scripts ID 566	26
3.3.53	Test Scripts ID 567	26
3.3.54	Test Scripts ID 569	26
3.3.55	Test Scripts ID 580	26
3.3.56	Test Scripts ID 581	27
3.3.57	Test Scripts ID 585	27
3.4	Miscellaneous Script Examples	27
3.4.1	Routing table Scripts.....	27

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

2 INTRODUCTION

2.1 Purpose

This document describes the RapidIO test scripts associated with DIL2 testing. This is a living document that will be revised each time the DIL2 test scripts or syntax change.

2.2 Background

RapidFET is a network management and diagnostic tool used in RIOLAB to control interoperability testing and report results. The test scripts defined in this document are generated as an output from RapidFET.

These scripts provide detailed visibility of what RapidIO transactions were issued in any given checklist test. They also provide a detailed account of the results and if the transaction itself was completed successfully or not. This information can be of value in understanding why a particular checklist test passed or failed.

In lieu of using RapidFET to run interoperability tests from an endpoint, these scripts may also be used by a Script Command Interpreter as an input to repeat the same tests.

2.3 Related Documents

The following documents were used in the creation of, or are referenced in this document:

- DIL2_Test_Description.doc
-

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

3 TEST SCRIPTS

3.1 Overview

The following sections describe the syntax associated with DIL2 test scripts.

3.1.1 Comments

Comment lines begin with a # character and exist for the purpose of providing a human readable description of the test or subsection of the test or to indicate when human interaction takes place.

Examples:

```
#Host Base Device ID CSR Host_base_deviceID field reset value is 0xFFFF.
```

3.1.2 Commands

Commands are representative of RapidIO transactions or user interaction prompts. Commands include parameters associated with destination, memory location, data, comments and status.

3.1.3 Command Parameters

For each command there is a list of associated input and output parameters. A script interpreter may choose to ignore output parameters. To facilitate this output parameters are preceded by a comment “#” character.

- All parameters are hexadecimal values (except for the “Prompt” command where the input parameter is a string.)
- All values and parameters are in big-endian [32:0] format.
- The parameters are not case sensitive.
- Commands begin on a new line, starting with the command name and are followed by the list of parameters separated by spaces and terminated with <CR><LF>.

3.2 Command Descriptions

3.2.1 User Prompt

Syntax:

Prompt:

Parameters:

Input:

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

Text String

Output:

None

Example Script Line:

Prompt: Reset the board now

3.2.2 Maintenance Read

Syntax:

Maint_read

Parameters:

Input:

Destination ID (FFFFFFFF means local device)

Priority (2bits)

Hop Count (8bits)

Offset Address (24bits)

Num Bytes (8bits)

Output:

(Comment character)

Data Word #1 (32 bits)

Data Word #2 (32 bits)

.

.

Data Word #n (32 bits, n is [Num Bytes / 4])

Last parameter is a command Succeeded or Failed notation

Example Script Line:

Maint_read ffffffff 0 0 0 4 # 30 Succeeded

3.2.3 Maintenance Write

Syntax:

Maint_write

Parameters:

Input:

Destination ID (FFFFFFFF means local device)

Priority (2bits)

Hop Count (8bits)

Offset Address (24bits)

Num Bytes (8bits)

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

Data Word #1 (32 bits)
 Data Word #2 (32 bits)
 .
 .
 Data Word #n (32 bits, n is [Num Bytes / 4])

Output:
 # (Comment character)
 Last parameter is a command Succeeded or Failed notation

Example Script Line:

```
Maint_write ff 0 0 11070 4 80000000 # Succeeded
```

3.2.4 Read Request

Syntax:

Nread

Parameters:

Input:

Destination ID
 Priority (2bits)
 Offset Address (66bits)
 Num Bytes (8bits)

Output:

(Comment character)
 Data Word #1 (32 bits)
 Data Word #2 (32 bits)
 .
 .
 Data Word #n (32 bits, n is [Num Bytes / 4])
 Last parameter is a command Succeeded or Failed notation

Example Script Line:

```
Nread 5 0 8012345678 c # aaaaaaaaa aaaaaaaaa ffffffff Succeeded
```

3.2.5 Write with Response

Syntax:

Nwrite_R

Parameters:

Input:

Destination ID
 Priority (2bits)

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

Offset Address (66bits)
 Num Bytes (8bits)
 Data Word #1 (32 bits)
 Data Word #2 (32 bits)
 .
 .
 Data Word #n (32 bits, n is [Num Bytes / 4])

Output:

(Comment character)
 Last parameter is a command Succeeded or Failed notation

Example Script Line:

Nwrite_R 5 2 8012345678 8 aaaaaaaaa aaaaaaaaa # Succeeded

3.2.6 Write

Syntax:

Nwrite

Parameters:

Input:

Destination ID
 Priority (2bits)
 Offset Address (66bits)
 Num Bytes (8bits)
 Data Word #1 (32 bits)
 Data Word #2 (32 bits)
 .
 .
 Data Word #n (32 bits, n is [Num Bytes / 4])

Output:

(Comment character)
 Last parameter is a command Succeeded or Failed notation

Example Script Line:

Nwrite 5 2 8012345678 8 55555555 55555555 # Succeeded

3.2.7 Streaming Write

Syntax:

Swrite

Parameters:

Input:

Destination ID

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

Priority (2bits)
 Offset Address (66bits)
 Num Bytes (8bits)
 Data Word #1 (32 bits)
 Data Word #2 (32 bits)
 .
 .
 Data Word #n (32 bits, n is [Num Bytes / 4])

Output:

(Comment character)
 Last parameter is a command Succeeded or Failed notation

Example Script Line:

```

Swrite 5 2 8012345678 200 ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff
ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff
ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff
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ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff ffffffff
# Succeeded
  
```

3.3 Checklist Test Script Examples

The following test script examples use the following common parameters:

Destination ID = 5
 Priority (2bits) = 0

3.3.1 Test Scripts ID 7

```

#Test 7: Reads to reserved CAR bits return logic 0s.
#Issue a maintenance read to the Processing Element Features CAR
Maint_read 5 0 1 10 4 # 20000019 Succeeded
#Issue a maintenance read of the CAR - Switch Port Information
Maint_read 5 0 1 14 4 # 100 Succeeded
#Issue a maintenance read of the CAR - Source Operations
Maint_read 5 0 1 18 4 # fdf4 Succeeded
#Issue a maintenance read of the CAR - Destination Operations
Maint_read 5 0 1 1c 4 # fc04 Succeeded
#Checklist Test: Failed
  
```

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

3.3.2 Test Scripts ID 144

#Test 144: In the Port n Error and Status CSR, the "Port OK" bit will be 0 and the "Port Uninitialized" bit will be 1 after device reset.

Prompt: Reset the DUT

#Issue a maintenance read transaction from or through the DUT to the Port n Error and Status CSR of the DUT following a device reset

Maint_read 5 0 1 158 4 # 2 Succeeded

#Checklist Test: Failed

3.3.3 Test Scripts ID 149

#Test 149: After the device reset, a 1x / 4x device shall have the Port n Error and Status CSR "Port OK" bit is 0 and the "Port Uninitialized" bit is 1.

Prompt: Reset the DUT

#Issue a maintenance read transaction from or through the DUT to the Port n Error and Status CSR of the DUT following a device reset

Maint_read 5 0 1 158 4 # 2 Succeeded

#Checklist Test: Failed

3.3.4 Test Scripts ID 188

#Test 188: Start with ackID=0 after reset

Prompt: Reset the system, Capture the maintenance read packet and interpret the ackID value and validate that the first transaction issue following a reset uses an ackID=0.

#Issue a maintenance read transaction from or through the DUT of the Component Tag register of another endpoint as the first transaction following a device reset

Maint_read 5 0 1 6c 4 # 299f4000 Succeeded

Prompt: Prompt for Test Result

#Checklist Test: Passed

3.3.5 Test Scripts ID 216

#Test 216: Start with ackID=0 after reset.

Prompt: Reset the system, Capture the maintenance read response packet and interpret the ackID value and verify that the device receiving the transaction uses and ackID=0 in the response packet.

#Issue a maintenance read of the Component Tag register to the DUT as the first transaction following a device reset

Maint_read 5 0 1 6c 4 # 299f4000 Succeeded

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

Prompt: Prompt for Test Result

#Checklist Test: Passed

3.3.6 Test Scripts ID 217

#Test 217: Every packet causes an acknowledge control symbol with the corresponding ackID field.

Prompt: Capture both the maintenance transactions and the acknowledge control symbols and verify that the acknowledge control symbols for each packet has a matching ackID to that of the maintenance transaction.

#Issue 5 maintenance reads and 5 maintenance writes to the Component Tag Register in the DUT

Maint_write 5 0 1 6c 4 0 # Succeeded

Maint_read 5 0 1 6c 4 # 0 Succeeded

Maint_write 5 0 1 6c 4 0 # Succeeded

Maint_read 5 0 1 6c 4 # 0 Succeeded

Maint_write 5 0 1 6c 4 0 # Succeeded

Maint_read 5 0 1 6c 4 # 0 Succeeded

Maint_write 5 0 1 6c 4 0 # Succeeded

Maint_read 5 0 1 6c 4 # 0 Succeeded

Maint_write 5 0 1 6c 4 0 # Succeeded

Maint_read 5 0 1 6c 4 # 0 Succeeded

Prompt: Prompt for Test Result

#Checklist Test: Passed

3.3.7 Test Scripts ID 225

#Test 225: Device must send acknowledge control symbols in same order as packets are received (ackIDs are issued sequentially).

Prompt: Capture both the maintenance transactions and the acknowledge control symbols and verify that the acknowledge control symbols are issued in the same order as the corresponding packets are received with sequentially issued ackIDs.

#Issue 5 maintenance reads and 5 maintenance writes to the Component Tag Register in the DUT

Maint_write 5 0 1 6c 4 0 # Succeeded

Maint_read 5 0 1 6c 4 # 0 Succeeded

Maint_write 5 0 1 6c 4 0 # Succeeded

Maint_read 5 0 1 6c 4 # 0 Succeeded

Maint_write 5 0 1 6c 4 0 # Succeeded

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

```
Maint_read 5 0 1 6c 4 # 0 Succeeded
Maint_write 5 0 1 6c 4 0 # Succeeded
Maint_read 5 0 1 6c 4 # 0 Succeeded
Maint_write 5 0 1 6c 4 0 # Succeeded
Maint_read 5 0 1 6c 4 # 0 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.8 Test Scripts ID 359

```
#Test 359: Writable CSR fields can be written.
#This is a checklist heading. It is included here for completeness and does not represent a
checklist test in itself
#Checklist Test: Passed
```

3.3.9 Test Scripts ID 375

```
#Test 375: Response packets are sent with the target and destination fields reversed from
the corresponding request packet.
Prompt: Using a logic analyzer, ensure that the response packet target and destination
fields are reversed from that of the maintenance write transaction.
#Issue a maintenance write and a maintenance read to the Component TAG register of
the DUT. Using a logic analyzer, ensure that the response packet target and destination
fields are reversed from that of the maintenance write transaction.
Maint_write 5 0 1 6c 4 12345678 # Succeeded
Maint_read 5 0 1 6c 4 # 12345678 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.10 Test Scripts ID 377

```
#Test 377: Endpoint free switch responds to maintenance requests with hop_count=0
when received.
Prompt: Using a logic analyzer, ensure that the maintenance packets contains a
hop_count=0.
#Issue a maintenance write to the Component TAG register of the DUT
Maint_write 5 0 1 6c 4 12345678 # Succeeded
Maint_read 5 0 1 6c 4 # 12345678 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

3.3.11 Test Scripts ID 391

```
#Test 391: All necessary CARs exist and can be read.
#This is a checklist heading. It is included here for completeness and does not represent a
checklist test in itself
#Checklist Test: Passed
```

3.3.12 Test Scripts ID 392

```
#Test 392: Device Identity CAR
#Issue a maintenance read to the Device Identity CAR
Maint_read 5 0 1 0 4 # 30 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.13 Test Scripts ID 393

```
#Test 393: Device Information CAR
#Issue a maintenance read to the Device Information CAR
Maint_read 5 0 1 4 4 # 0 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.14 Test Scripts ID 394

```
#Test 394: Assembly Identity CAR
#Issue a maintenance read to the Assembly Identity CAR
Maint_read 5 0 1 8 4 # 30 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.15 Test Scripts ID 395

```
#Test 395: Assembly Information CAR
#Issue a maintenance read to the Assembly Information CAR
Maint_read 5 0 1 c 4 # 0 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

3.3.16 Test Scripts ID 396

```
#Test 396: Processing Element Features CAR
#Issue a maintenance read to the Processing Element Features CAR
Maint_read 5 0 1 10 4 # 20000019 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.17 Test Scripts ID 397

```
#Test 397: Switch Port Information CAR
#Issue a maintenance read to the Switch Port Information CAR
Maint_read 5 0 1 14 4 # 100 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.18 Test Scripts ID 398

```
#Test 398: Source Operations CAR
#Issue a maintenance read to the Source Operations CA
Maint_read 5 0 1 18 4 # fdf4 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.19 Test Scripts ID 399

```
#Test 399: Destination Operations CAR
#Issue a maintenance read to the Destination Operations CAR
Maint_read 5 0 1 1c 4 # fc04 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.20 Test Scripts ID 400

```
#Test 400: All necessary CSRs exist and can be read.
#This is a checklist heading. It is included here for completeness and does not represent a
checklist test in itself
#Checklist Test: Passed
```

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

3.3.21 Test Scripts ID 401

```
#Test 401: Processing Element Logical Layer Control CSR
#Issue a maintenance read to the Processing Element Logical Layer Control CSR
Maint_read 5 0 1 4c 4 # 1 Succeeded
#Checklist Test: Passed
```

3.3.22 Test Scripts ID 402

```
#Test 402: Local Configurations Space Base Address 0 CSR
#Issue a maintenance read to the Local Configurations Space Base Address 0 CSR
Maint_read 5 0 1 58 4 # a Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.23 Test Scripts ID 403

```
#Test 403: Local Configurations Space Base Address 1 CSR
#Issue a maintenance read to the Local Configurations Space Base Address 1 CSR
Maint_read 5 0 1 5c 4 # 0 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.24 Test Scripts ID 427

```
#Test 427: Destination Operations CAR must indicate target support for
#This is a checklist heading. It is included here for completeness and does not represent a
checklist test in itself
#Checklist Test: Passed
```

3.3.25 Test Scripts ID 428

```
#Test 428: NREAD operations
#Issue a maintenance read to the Destination Operations CAR
Maint_read 5 0 1 1c 4 # fc04 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.26 Test Scripts ID 429

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

```
#Test 429: NWRITE operations
#Issue a maintenance read to the Destination Operations CAR
Maint_read 5 0 1 1c 4 # fc04 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.27 Test Scripts ID 430

```
#Test 430: SWRITE operations
#Issue a maintenance read to the Destination Operations CAR
Maint_read 5 0 1 1c 4 # fc04 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.28 Test Scripts ID 431

```
#Test 431: NWRITE_R operations
#Issue a maintenance read to the Destination Operations CAR
Maint_read 5 0 1 1c 4 # fc04 Succeeded
Prompt: Prompt for Test Result
#Checklist Test: Passed
```

3.3.29 Test Scripts ID 434

```
#Test 434: NREAD response data payload is of the requested size and alignment.
Prompt: Get Memory Address
#Issue an nWrite transaction of 32 bytes to a memory address ending in 0x000 using data
incrementing from 1 to 32 - decimal
Nwrite 5 2 8012345000 20 1 2 3 4 5 6 7 8 9 a b c d e f 10 11 12 13 14 15 16 17 18 19 1a
1b 1c 1d 1e 1f 20 # Succeeded
#Issue an nREAD transaction to an endpoint for a payload size of 21 bytes using a
memory address ending with 0x002
Nread 5 0 0 8012345002 15 # 3 4 5 6 7 8 9 a b c d e f 10 11 12 13 14 15 16 17 Succeeded
#Checklist Test: Passed
```

3.3.30 Test Scripts ID 435

```
#Test 435: Maximum NREAD request can be 256 bytes.
```


Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

Prompt: Prompt for Test Result
 #Checklist Test: Passed

3.3.48 Test Scripts ID 481

#Test 481: NWRITE_R packet must properly specify the data payload size and alignment.

Prompt: Using a logic analyzer, confirm that the nWRITE_R transaction correctly specifies the requested size and alignment.

Prompt: Get Memory Address

#Issue an nWRITE_R transaction to an endpoint for a payload size of 20 bytes to an address ending with '3'

Nwrite_R 5 2 8012345003 14 ff ff ff ff ff ff ff ff ff ff ff ff ff ff ff ff ff ff # Succeeded

Prompt: Prompt for Test Result
 #Checklist Test: Passed

3.3.49 Test Scripts ID 482

#Test 482: NWRITE_R packet actual data payload size may be less than the specified size (multiple double-word only).

Prompt: Using a logic analyzer, confirm that the nWRITE_R transaction packet size is 8 bytes.

Prompt: Get Memory Address

#Issue an nWRITE_R transaction to an endpoint for a payload size of 5 bytes to an address ending with '3'

Nwrite_R 5 2 8012345003 5 ff ff ff ff ff # Succeeded

Prompt: Prompt for Test Result
 #Checklist Test: Passed

3.3.50 Test Scripts ID 483

#Test 483: SWRITE transaction

#This is a checklist heading. It is included here for completeness and does not represent a checklist test in itself

#Checklist Test: Passed

3.3.51 Test Scripts ID 484

#Test 484: SWRITE packets always contain data payloads of one or more double-words.

Prompt: Get Memory Address

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

Prompt: Using a logic analyzer, confirm that the sWrite transactions payload contains: 24 bytes

#Issue an sWRITE transaction to an endpoint for a payload size of 24 bytes to an address ending with 0

Nwrite 5 2 8012345000 18 ff #
Succeeded

Prompt: Prompt for Test Result

#Checklist Test: Passed

3.3.52 Test Scripts ID 566

#Test 566: All necessary CARs exist and can be read.

#This is a checklist heading. It is included here for completeness and does not represent a checklist test in itself

#Checklist Test: Passed

3.3.53 Test Scripts ID 567

#Test 567: Device Identity CAR; bits 0-15: value is implementation dependent, bits 16-31: value is vendor specific as assigned by the RapidIO Trade Association.

#Issue a maintenance read to the Device Identity CAR.

Maint_read 5 0 1 0 4 # 30 Succeeded

Prompt: Prompt for Test Result

#Checklist Test: Passed

3.3.54 Test Scripts ID 569

#Test 569: Assembly Identity CAR; bits 0-15: value is implementation dependent, bits 16-31: value is vendor specific as assigned by the RapidIO Trade Association.

#Issue a maintenance read to the Assembly Identity CAR.

Maint_read 5 0 1 8 4 # 30 Succeeded

Prompt: Prompt for Test Result

#Checklist Test: Passed

3.3.55 Test Scripts ID 580

#Test 580: MAINTENANCE read response payload size matches requested size.

Prompt: Using a logic analyzer, confirm that the maintenance read response packet payload size matches the requested size.

#Issue a maintenance Read transaction to the Assembly Identity CAR in the DUT for a payload size of 64 bytes

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

```
Maint_read 5 0 1 8 100 # 30 0 0 0 0 0 0 0 19 0 0 20 0 1 0 0 f4 fd 0 0 4 fc 0 0 4 fc 0 0 4 fc
0 0 4 fc 0 0 4 fc 0 0 4 fc 0 0 4 fc 0 0 4 fc 0 0 4 fc 0 0 4 fc 0 0 4 fc 0 0 Succeeded
```

Prompt: Prompt for Test Result

#Checklist Test: Passed

3.3.56 Test Scripts ID 581

#Test 581: Response data for a MAINTENANCE packet consists of one or more double words, although sub-double-word data may have been requested.

Prompt: Using a logic analyzer, confirm that the two maintenance read response packets are issued containing the correct number of double word or sub-double word data.

#Issue a maintenance Read transaction to the Assembly Identity CAR in the DUT for a payload size of 21 bytes

```
Maint_read 5 0 1 8 54 # 30 0 0 0 0 0 0 0 19 0 0 20 0 1 0 0 f4 fd 0 0 4 Succeeded
```

Prompt: Prompt for Test Result

#Checklist Test: Passed

3.3.57 Test Scripts ID 585

#Test 585: MAINTENANCE write response does not contain a data payload.

Prompt: Using a logic analyzer, confirm that the maintenance write response packet does not contain a data payload

#Issue a maintenance Write transaction to the ComponentTag CSR in the DUT using a value of 0x12345678

```
Maint_write 5 0 1 6c 4 12345678 # Succeeded
```

Prompt: Prompt for Test Result

#Checklist Test: Passed

3.4 Miscellaneous Script Examples

3.4.1 Routing table Scripts

#Test: This script will demonstrate the download of routing tables

#Write Routing Table

```
Maint_write ff 0 0 70 8 0 ff # Succeeded
```

```
Maint_write ff 0 0 70 8 1 ff # Succeeded
```

```
Maint_write ff 0 0 70 8 2 ff # Succeeded
```

```
Maint_write ff 0 0 70 8 3 ff # Succeeded
```

```
Maint_write ff 0 0 70 8 4 ff # Succeeded
```

Title:	DIL2 Test Scripts	File Number:	
Security Level:	Public	Release Status:	v 1.2
Owner Group:	RIOLAB	Revision Date:	31 Jan 2007

Maint_write ff 0 0 70 8 5 2 # Succeeded
Maint_write ff 0 0 70 8 6 ff # Succeeded
Maint_write ff 0 0 70 8 7 ff # Succeeded
Maint_write ff 0 0 70 8 8 ff # Succeeded
Maint_write ff 0 0 70 8 9 ff # Succeeded
Maint_write ff 0 0 70 8 a ff # Succeeded
Maint_write ff 0 0 70 8 b ff # Succeeded
Maint_write ff 0 0 70 8 c 12 # Succeeded
Maint_write ff 0 0 70 8 d ff # Succeeded
Maint_write ff 0 0 70 8 e ff # Succeeded
Maint_write ff 0 0 70 8 f ff # Succeeded
Maint_write ff 0 0 70 8 10 ff # Succeeded
Maint_write ff 0 0 70 8 11 ff # Succeeded
Maint_write ff 0 0 70 8 12 ff # Succeeded

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Maint_write ff 0 0 70 8 1ff ff # Succeeded
