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# Global Object Test Procedure

Developed by



for

Oregon Department of Transportation

and based on previous work by

ENTERPRISE, Virginia DOT, and Iteris, Inc.

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*Session Name*            *General*

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**Trial Nam**    Set-Up

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<b>Step</b>	<b>Action</b>	<b>Notes</b>
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- 1 Record the values used for the following:  
Description1  
Description2  
DSTFall  
DSTSpring  
EventClass1 Size  
EventClass2  
EventClass2 Size  
Event2 = b  
Event3 = c  
Feb29  
GreaterObject  
GreaterValue  
HystObject  
HystValue1  
HystValue2  
ModuleTableEntry  
OnChange Object
- 2 Prepare the test environment.
- 3 Prepare the initialization files.
- 4 Start the Exerciser in Central Mode.
- 5 Send unnumbered polls until no response is received or an empty frame is received

**Pass**

**Fail**

**Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

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*Session Name*            *Configuration Conformance Group*

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**Trial Nam**    Get Module Table Entry

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<b>Step</b>	<b>Action</b>	<b>Notes</b>
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- 1 Send an SNMP 'get-request' for  
globalMaxModules.0
- 2 Send an SNMP 'get-request' for  
moduleMake.1  
moduleType.1  
moduleModel.1  
moduleVersion.1  
moduleDeviceNode.1
- 3 Send an SNMP 'get-request' for  
moduleMake.x  
moduleType.x  
moduleModel.x  
moduleVersion.x  
moduleDeviceNode.x  
where x = ModuleTableEntry

Pass

Fail

Signature \_\_\_\_\_

Date \_\_\_\_\_

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*Session Name*                      *Time Management Conformance Group*

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**Trial Nam**    Get Global Time Object

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<b>Step</b>	<b>Action</b>	<b>Notes</b>
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- 1 Send an SNMP 'get-request' for globalTime.0
- 2 Wait at least 5 seconds
- 3 Send an SNMP 'get-request' for globalTime.0
- 4 Verify that the value indicated is approximately reflects the time difference from and step 2.

Pass

Fail

Signature \_\_\_\_\_

Date \_\_\_\_\_

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**Trial Nam**    Daylight Savings Test

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<b>Step</b>	<b>Action</b>	<b>Notes</b>
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- 1 Send an SNMP 'get-request' for:  
globalLocalTimeDifferentialParameter.0  
globalTime.0  
globalDaylightSavingsTime.0  
and record.
- 2 Send an SNMP 'set-request' as follows:  
globalLocalTimeDifferentialParameter.0 = 0  
globalDayLightSavings.0 = 3  
globalTime.0 = DSTSpring - 60
- 3 Wait at least 60 seconds.
- 4 Send an SNMP 'get-request' for:  
globalLocalTimeDifferentialParameter.0
- 5 Verify that globalLocalTimeDifferentialParameter.0 has changed to 3600.
- 6 Send an SNMP 'set-request' as follows:  
globalTime.0 = DSTFall - 60
- 7 Wait at least 60 seconds.
- 8 Send an SNMP 'get-request' for:  
globalLocalTimeDifferentialParameter.0
- 9 Verify that globalLocalTimeDifferentialParameter.0 has returned to 0.
- 10 Send an SNMP 'set-request' to restore the following to their original values (adjust seconds elapsed):  
globalTime.0  
globalDaylightSavingsTime.0  
globalLocalTimeDifferential.0

Pass

Fail

Signature \_\_\_\_\_

Date \_\_\_\_\_

**Trial Nam** Leap Year Test

Step	Action	Notes
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- 1 Send an SNMP 'get-request' for:  
globalLocalTimeDifferentialParameter.0  
globalTime.0
- 2 Run the set-msg.scr macro.
- 3 For the MULTI String enter:  
[f2,5] [f9,2]/[f8,2]
- 4 For the message number enter:  
3.2
- 5 For the priority enter  
1
- 6 Send an SNMP 'set-request' as follows:  
dmsActivateMessage.0 =  
00 05 64 03 00 02 88 F8 C0 A8 35 13
- 7 Send an SNMP 'set-request' as follows:  
globalLocalTimeDifferentialParameter.0 = 0  
globalTime.0 = Feb29
- 8 Verify after approximately 1 minute that the globalTime has changed to reflect t  
year by indicating the date as February 29 with the correct year.
- 9 Return the globalTime.0 Object to reflect the current date.

Pass

Fail

Signature \_\_\_\_\_

Date \_\_\_\_\_

*Session Name Report Conformance Group*

**Trial Nam** Get Configuration

Step	Action	Notes
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- 1 Send an SNMP 'get-request' for  
maxEventClasses.0  
maxEventLogSize.0  
maxEventLogConfigs.0

Pass

Fail

Signature \_\_\_\_\_

Date \_\_\_\_\_

**Trial Nam** Create Event Classes

Step	Action	Notes
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- 1 Send an SNMP 'get-request' for  
eventClassNumber.1  
eventClassLimit.1  
eventClassClearTime.1  
eventClassDescription.1  
eventClassNumber.EventClass2  
eventClassLimit.EventClass2

eventClassClearTime.EventClass2  
eventClassDescription.EventClass2

- 2 Send an SNMP 'set-request' for  
eventClassLimit.1 = EventClass1 Size  
eventClassClearTime.1 to the last recorded value for globalTime.0  
eventClassDescription.1 = Description1
- 3 Send an SNMP 'set-request' for  
eventClassLimit.EventClass2 = EventClass2 Size  
eventClassClearTime.EventClass2 to the last recorded value of globalTime  
eventClassDescription.EventClass2 = Description2

Pass

Fail      **Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

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**Trial Nam**    Configure Event 1

Step	Action	Notes
1	Send an SNMP 'get-request' for eventConfigID.1 eventConfigClass.1 eventConfigMode.1 eventConfigCompareOID.1 eventConfigLogOID.1 eventConfigAction.1	
2	Send an SNMP 'set-request' as follows eventConfigClass.1 = 1 eventConfigMode.1 = 2 (onChange) eventConfigCompareValue.1 = 0 eventConfigCompareValue2.1 = 0 eventConfigCompareOID.1 = onChangeObject eventConfigLogOID.1 = onChange eventConfigAction.1 = 3	

Pass

Fail      **Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

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**Trial Nam**    Configure Event 2

Step	Action	Notes
1	Send an SNMP 'get-request' for eventConfigID.b eventConfigClass.b eventConfigMode.b eventConfigCompareOID.b eventConfigLogOID.b eventConfigAction.b	
2	Send an SNMP 'set-request' as follows eventConfigClass.b = EventClass2 eventConfigMode.b = 3 (greater than) eventConfigCompareValue.b = GreaterValue eventConfigCompareValue2.b = 0 eventConfigCompareOID.b = GreaterObject eventConfigLogOID.b = onChangeObject eventConfigAction.b = 3	

Pass

Fail      **Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

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**Trial Nam** Configure Event 3

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Step	Action	Notes
1	Send an SNMP 'get-request' for eventConfigID.c eventConfigClass.c eventConfigMode.c eventConfigCompareOID.c eventConfigLogOID.c eventConfigAction.c	
2	Send an SNMP 'set-request' as follows eventConfigClass.c = 1 eventConfigMode.c = 5 (hysteresis) eventConfigCompareValue.c HystValue1 eventConfigCompareValue2.c = HystValue2 eventConfigCompareOID.c = HystObject eventConfigLogOID.c = GreaterObject set eventConfigAction.c = 3	
<input type="checkbox"/>	Pass	
<input type="checkbox"/>	Fail	Signature _____ Date _____

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**Trial Nam** Create Event 1

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Step	Action	Notes
1	Perform operations as necessary to ensure that Event 1 occurs	
<input type="checkbox"/>	Pass	
<input type="checkbox"/>	Fail	Signature _____ Date _____

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**Trial Nam** Create Event 2

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Step	Action	Notes
1	Perform operations as necessary to ensure that Event 2 occurs	
<input type="checkbox"/>	Pass	
<input type="checkbox"/>	Fail	Signature _____ Date _____

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**Trial Nam** Create Event 3

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Step	Action	Notes
1	Perform operations as necessary to ensure that Event3 occurs	
<input type="checkbox"/>	Pass	
<input type="checkbox"/>	Fail	Signature _____ Date _____

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**Trial Nam** Get Log

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Step	Action	Notes
1	Send an SNMP 'get-request' for eventLogClass.1.1 eventLogNumber.1.1 eventLogID.1.1 eventLogTime.1.1 eventLogValue.1.1 eventLogID.1.2	

eventLogTime.1.2  
eventLogValue.1.2  
eventLogClass.EventClass2.1  
eventLogNumber.EventClass2.1  
eventLogID.EventClass2.1  
eventLogTime.EventClass2.1  
eventLogValue.EventClass2.1

2 Verify that the event time stamps approximately agree with the times recorded in Trials 6-8.

**Pass**

**Fail**

**Signature** \_\_\_\_\_ **Date** \_\_\_\_\_