Documentation Bulletin

Severity Level	Info	Bulletin Number	DN002771
Issue Date	08/20/2014	**Expires**	DSR 6.0 Customer Documentation Sets
Title	Additional information on the Alarms, Events, and Measurements in DSR 4.0, 4.1.5, 5.0, and 5.1.		
Product	DSR	**Release**	4.0, 4.1.5, 5.0, and 5.1
Priority	FYI	**Related Bugs**	Bugs 19119108, 19119443, 19119442, and 19295518
Impacts Compatibility	NO	**Product Line(s):** *(Only if Impacts Compatibility = YES)*	N/A
Author	M. Garrell	**Part No. Affected**	910-6638-001 910-6827-001
Markets	ALL		
Approved By/Date			
Information Development Manager	J. GIBSON 8/21/2014		

Problem Description

The Alarms, KPIs, and Measurements Reference Guide did not contain information on the alarms, events, and measurements listed below. Some of the Alarms, Events, and Measurements have been deprecated in DSR Release 6.0 and are no longer valid.

Impact

If an alarm, event, or measurement is raised, but there is no information provided about the alarm/event/measurement, the customer will be unsure as to what to what action to take.

Needed Actions

Customers should store this bulletin in the Documentation location for reference. Contact Customer Access Support (CAS) for further assistance.

Alarms & Events

For more information, see *DSR Alarms, KPIs, and Measurements Guide* (part numbers 910-6638-001, 910-6827-001) on the OTN at http://www.oracle.com

Alarm /Event ID	Description	Alarm Group	Severity	OID
5000	An IPFE process has stopped	IPFE	Critical	ipfeIpfeProcessFailureNotify
5101	CPU utilization is approaching maximum levels.	IPFE	Major	ipfeIpfeCpuOverloadNotify
5102	Disk space utilization is approaching maximum levels.	IPFE	Major	ipfeIpfeDiskUsageNotify
5103	IPFE memory utilization is approaching maximum levels.	IPFE	Major	ipfeIpfeMemoryOverloadNotify
10050	An unexpected error occured in the execution of an external resource audit	AUD	Minor	tekelecResourceAuditFailure
10051	An error occured in the deployment of a network route	AUD	Minor	tekelecRouteDeploymentFailed
10052	An error occured in the discovery of network routes	AUD	Minor	tekelecRouteDiscoveryFailed
10053	Could not identify a suitable device for the deployment of a network route	AUD	Minor	tekelecNoRouteDevice
10054	An error occured in the deployment of a network	AUD	Minor	tekelecDeviceDeploymentFailed
10055	An error occured in the discovery of network devices	AUD	Minor	tekelecDeviceDiscoveryFailed
10073	Server Group Max Allowed HA Role Warning	HA	Minor	oAGTSgMaxAllowedHARoleWarn
10104	The performance data export remote copy operation failed.	LOG	Info	awpss7TekelecExportXferFailedNotify
10115	The system ID is invalid for the license file	LOG	Minor	tekelecLogSystemIdInvalid

10116	The application software license key is invalid	LOG	Minor	tekelecLogApplKeyInvalid
10117	The trial license file will expire soon	LOG	Info	tekelecLogTrialLicenseExpiring
10118	Trial license file is expired	LOG	Minor	tekelecLogTrialLicenseExpired
10119	The system clock has been adjusted by more than 2 hours	LOG	Minor	tekelecLogClockWindBackDetected
10120	License key validation has been run	LOG	Info	tekelecLogLicenseValidation
19818	The percent utilization of the Communication Agent DataEventmempool is approaching defined threshold capacity	CAF	Major	cAFDataEvPoolResUtilNotify
19856	Communication Agent Service Provider Registration State Changed	ComAgent	Info	cAFMultipleActivesNotify
19857	The Communication Agent Service Provider Operational State has Changed	ComAgent	Info	cAFEventSvcProvOpStateChangedNotify
19862	The Communication Agent Ingress Stack Event Rate is approaching its defined threshold capacity	ComAgent	Minor	cAFIngressRateNotify
22010	The DAS Route List specified by the trigger point is not provisioned	Diameter	Info	eagleXgDiameterSpecifiedDasRouteListNotProvisionedNotify
22013	The configured number of Message Copy retransmits has been exceeded for the DAS Peer	Diameter	Info	eagleXgDiameterNumberOfRetransmitsExceededToDasNotify
22014	No valid DAS Route List has been specified in the Message Copy Config Set	Diameter	Info	eagleXgDiameterNoDasRouteListSpecifiedNotify
22021	Debug Routing Info AVP is Enabled	Diameter	Minor	eagleXgDiameterDebugRoutingInfoAvpEnabledNotify
22030	The percent utilization of the MP's DRL Event Task Queue is approaching its maximum capacity	Diameter	Major	eagleXgDiameterEventTaskQueueUtilNotify

22031	The percent utilization of the MP's DRL Request Task Queue is approaching its maximum capacity	Diameter	Major	eagleXgDiameterRequestTaskQueueUtilNotify
22032	The percent utilization of the MP's DRL Answer Task Queue is approaching its maximum capacity	Diameter	Major	eagleXgDiameterAnswerTaskQueueUtilNotify
22033	The percent utilization of the MP's DRL Reroute Task Queue is approaching its maximum capacity	Diameter	Major	eagleXgDiameterRerouteTaskQueueUtilNotify
22100	The percent utilization of the MP's DCL Event Task Queue is approaching its maximum capacity	Diameter	Major	eagleXgDiameterDclEventTaskQueueUtilNotify
22105	The connection transmit buffer is congested, messages will be discarded. This alarm is deprecated.	Diameter	Major	eagleXgDiameterConnectionTxCongestionAlarmNotify
22208	The MP's per-connection egress message queue is approaching its maximum capacity	Diameter	Major	eagleXgDiameterPerConnMessageQueueUtilNotify
22328	The diameter connection specified in the alarm instance is processing higher than normal ingress messaging rate	Diameter	Info	eagleXgDiameterIngressMpsRateNotify
22333	Connection was rejected due to insufficient Ingress MPS on the DA-MP to support the Reserved Ingress MPS configured for the connection.	Diameter	Info	eagleXgDiameterConnRejInsufficientIngressMpsNotify
22338	Connection Degraded: Egress Transport Congestion	Diameter	Info	N/A
22339	Connection Degraded: Egress Message Rate Congestion	Diameter	Info	N/A
22341	Egress Transport Congestion – Abatement Complete	Diameter	Info	N/A
22342	Egress Message Rate Congestion – Abatement Complete	Diameter	Info	N/A
22702	The hashing result does not match configured Resource or sub-resource.	PDRA	Info	pdraPdraHashingResDoesNotMatchResOrSubResNotify
22703	Diameter Message Routing Failure Due To Full DRL Queue	PDRA	Info	PdraEgressMsgRoutingFailureDueToDrlQueueExhaustedNotify

31127	DB replication audit completed	REPL	Info	comcolDbRepAuditCompleteNotify
31299	HA Notification status	HA	Info	comcolHaNotificationNotify
31300	HA Control action status	HA	Info	comcolHaControlNotify
32100	Breaker Panel Feed Unavailable	TPD	Critical	eagleXgDsrTpdBrkPnlFeedUnavailableNotify
32101	Breaker Panel Breaker Failure	TPD	Critical	eagleXgDsrTpdBrkPnlBreakerFailureNotify
32102	Breaker Panel Monitoring Failure	TPD	Critical	eagleXgDsrTpdBrkPnlMntFailureNotify
32103	Power Feed Unavailable	TPD	Critical	eagleXgDsrTpdPowerFeedUnavailNotify
32104	Power Supply 1 Failure - deprecated	TPD	Critical	eagleXgDsrTpdPowerSupply1FailureNotify
32105	Power Supply 2 Failure - deprecated	TPD	Critical	eagleXgDsrTpdPowerSupply2FailureNotify
32106	Power Supply 3 Failure - deprecated	TPD	Critical	eagleXgDsrTpdPowerSupply3FailureNotify
32107	RAID Feed Unavailable	TPD	Critical	eagleXgDsrTpdRaidFeedUnavailableNotify
32108	RAID Power Supply 1 Failure	TPD	Critical	eagleXgDsrTpdRaidPower1FailureNotify
32109	RAID Power Supply 2 Failure	TPD	Critical	eagleXgDsrTpdRaidPower2FailureNotify
32110	RAID Power Supply 3 Failure	TPD	Critical	eagleXgDsrTpdRaidPower3FailureNotify
32111	Device Failure	TPD	Critical	eagleXgDsrTpdDeviceFailureNotify
32112	Device Interface Failure	TPD	Critical	eagleXgDsrTpdDeviceIfFailureNotify
32328	DRBD block device can not be mounted.	TPD	Major	eagleXgDsrTpdDrbdUnavailableNotify
32329	DRBD block device is not being replicated to peer.	TPD	Major	eagleXgDsrTpdDrbdNotReplicatingNotify
32306	Server RAM Shortage Error	TPD	Major	tpdRamShortageError
32309	Server Eagle Network A Error	TPD	Major	tpdEagleNetworkAError
32310	Server Eagle Network B Error	TPD	Major	tpdEagleNetworkBError
32311	Server Sync Network Error	TPD	Major	tpdSyncNetworkError
32328	DRBD is unavailable	PLAT	Major	tpdDrbdUnavailable
32329	DRBD is not replicating	PLAT	Major	tpdDrbdNotReplicating
32330	DRBD peer needs intervention.	TPD	Major	eagleXgDsrTpdDrbdPeerProblemNotify
32504	Server Software Configuration Error	TPD	Minor	eagleXgDsrTpdSoftwareConfigErrorNotify
32700	Telco Switch Notification	Platform	Info	tpdTelcoSwitchNotification

KPIs

Variable	Description
Alarm.Crit	The number of critical alarms
Alarm.Major	The number of major alarms
Alarm.Minor	The number of minor alarms
Alarm.State	The alarm state
MsgCopyTxQueueUtilization	Percentage of utilization of the Message Copy Tx Queue
pSBR Bindings	Total Number of Active Bindings
pSBR Avg Binding DB Read Rate	Average number of binding DB reads per second
pSBR Avg Binding DB Write Rate	Average number of binding DB writes per second
pSBR Sessions	Total Number of Active Sessions
pSBR Avg Session DB Read Rate	Average number of session DB reads per second
pSBR Avg Session DB Write Rate	Average number of session DB writes per second

Measurements

RxMaxMpsAnswerRsp

Measurement Group: Diameter Exception
Measurement Dimension: Arrayed (by Connection Name)
Measurement Type: Simple
Description: The number of ingress Diameter Request messages received on a connection that were discarded because the Maximum Ingress MPS has been reached and Error Answer was generated.
Collection Interval: 5 min
Peg Condition: An DA-MP has applied overload message treatment due to Ingress MPS Limitation, and has determined that the message should be discarded and a response is generated.

RxMaxMpsDiscard

Measurement Group: Diameter Ingress Transaction Exception
Measurement Dimension: Arrayed
Measurement Type: Simple
Description: The number of ingress Diameter Request messages received on a connection that were discarded because of Local MP Congestion without Error Answer.
Collection Interval: 5 min
Peg Condition: An DA-MP has applied overload message treatment due to local MP congestion, and has determined that the message should be discarded without generating any response.

TxAllConnQueueFullRequestReject
Measurement Group: Diameter Ingress Transaction Exception
Measurement Type: Simple
Description: The number of egress Diameter Request messages that were rejected because the All-Connections Event Queue was full.
Collection Interval: 5 min
Peg Condition: For each Request message discarded because the All-Connections Event Queue was full. The connection measurement is associated with the connection from which the message was received.

CARSTxDscrdInternalErr
Measurement Group: ComAgent Exception
Measurement Type: Simple
Measurement Dimension: Arrayed (by Service ID)
Description: Number of egress events discarded because of another Routed Service internal error
Collection Interval: 30 min
Peg Condition: Each time an egress event is discarded because of another Router Service internal error

PsbrLockCollisions
Measurement Group: pSBR Binding Performance
Measurement Type: Simple
Measurement Dimension: Arrayed
Description: The number of collisions that occurred periodically while acquiring a lock
Collection Interval: 5 min
Peg Condition: Each time a collision occurs while acquiring a lock

TmPsbrProcessingTime
Measurement Group: pSBR Binding Performance
Measurement Type: Simple
Measurement Dimension: Arrayed
Description: The time (in microseconds) to process an event on pSBR. The measurement is to measure the average time (ms) taken for pSBR to process the stack event received from P-DRA and send back the stack event response to P-DRA.
Collection Interval: 5 min
Peg Condition: Each time a stack event is received from P-DRA and is sent back the response to P-DRA

PsbrPendingRarLockCollisions
Measurement Group: pSBR Session Performance
Measurement Type: Simple
Measurement Dimension: Arrayed
Description: The number of collisions occured periodically while acquiring a lock to update PendingRar table.

Collection Interval: 5 min
Peg Condition: Each time a collision occurs while acquiring a lock to update PendingRar table.

EvSockInitFail
Measurement Group: Connection Exception
Measurement Type: Simple
Measurement Dimension: Arrayed (by Connection ID)
Description: The number of times the socket initialization failed.
Collection Interval: 5 min
Peg Condition: Pegged when the DSR attempts to apply the SCTP/TCP socket options to a peer connection and fails.

EvLongTimeoutPtrPoolPeak
Measurement Group: MP Performance
Measurement Type: Max
Measurement Dimension: Single
Description: The peak Diameter Long Timeout PTR Buffer Pool utilization (0-100%) measured during the collection interval.
A Long Timeout PTR is allocated for each Request message with a Pending Answer Timer value greater than 10 seconds that is forwarded to an upstream peer and is de-allocated when an Answer response is received and routed to a downstream peer. This measurement is useful for evaluating whether excessive traffic levels are being assigned to the Long Timeout pool. Assignment of traffic to this pool should be limited to Requests that are expected to have long response times.
Collection Interval: 5 min
Peg Condition: The maximum Diameter Long Timeout PTR Buffer Pool utilization sample taken during the collection interval.

EvLongTimeoutPtrPoolAvg
Measurement Group: MP Performance
Measurement Type: Average
Measurement Dimension: Single
Description: The average Diameter Long Timeout PTR Buffer Pool utilization (0-100%) measured during the collection interval.
Collection Interval: 5 min
Peg Condition: The average of all Diameter Long Timeout PTR Buffer Pool utilization samples taken during the collection interval.

EvStasisModeMaxConnsExceeded
Measurement Group: MP Performance
Measurement Type: Simple
Measurement Dimension: Single
Description: The number of times DA-MP requested IPFE to cease distributing Diameter connections to the DA-MP due to maximum number of connections on the DA-MP.
Collection Interval: 5 min

Peg Condition: This measurement is incremented when the A DA-MP is sending IPFE a “heartbeat” message and it has determined that the number of Diameter connections established has reached the maximum number supported by the DA-MP since the last “heartbeat” message was sent. A DA-MP will send a “heartbeat” message indicating a STASIS availability status when it has reached its maximum number of active Diameter connections.

TxTestMessageDiscard
Measurement Group: Diameter Exception
Measurement Type: Simple
Measurement Dimension: Single
Description: The number of egress messages in test mode that were discarded at normal egress connection.
Collection Interval: 5 min
Peg Condition: Each time an egress message in test mode is discarded at normal egress connection

TxConnUnavailDiscard
Measurement Group: Diameter Exception
Measurement Type: Simple
Measurement Dimension: Arrayed (by Connection ID)
Description: The number of egress Diameter messages that were discarded by DCL because the egress connection was Unavailable.
Collection Interval: 5 min
Peg Condition: For each egress message discarded because the egress connection was found to be Unavailable.

RxConnMpCongestionAnswerRsp
Measurement Group: Diameter Exception
Measurement Type: Simple
Measurement Dimension: Arrayed (by Connection ID)
Description: The number of ingress messages that were rejected with an error response because oflocal congestion.
Collection Interval: 5 min
Peg Condition: For each ingress Diameter message that was rejected because of local MP congestion and an Answer response was sent. The connection measurement is associated with the connection from which the message was received.

RxDiscardedMsgsPerConnControlsMp
Measurement Group: Diameter Ingress Transaction Exception
Measurement Type: Simple
Measurement Dimension: Single
Description: The total number of ingress Diameter messages, over all connections, that were discarded by this MP. Discard is either due to the connection exceeding its configured maximum capacity, or unavailable shared capacity.
Collection Interval: 5 min
Peg Condition: Pegged when a Diameter message, received on any peer connection, is discarded due to exceeding the configured maximum ingress MPS.

TxLongTimeoutPtrListEmpty
Measurement Group: Diameter Ingress Transaction Exception
Measurement Type: Single
Measurement Dimension: Single
Description: The number of ingress Diameter Request messages that were discarded because no Long Timeout PTR Buffers were available.
Collection Interval: 5 min
Peg Condition: When any DRL thread within the Diameter Process needs to allocate a Long Timeout PTR Buffer from the Long Timeout PTR Buffer Pool and the number of allocated Long Timeout PTRs from a Long Timeout PTR Buffer Pool is less than the maximum configured capacity of Long Timeout PTR Buffers then:

- A Long Timeout PTR Buffer shall be allocated from the Long Timeout PTR Buffer Pool
- The count for the number of allocated Long Timeout PTRs from a Long Timeout PTR Buffer Pool shall be incremented by one.

TxPerConnQueueFullDiscard
Measurement Group: Diameter Ingress Transaction Exception
Measurement Type: Simple
Measurement Dimension: Arrayed (by Connection ID)
Description: The number of egress messages that were discarded because the "Per Connection Egress Message Queue" was full.
Collection Interval: 5 min
Peg Condition: For each message discarded because the "Per Connection Egress Message Queue" was full

TxSockFullDiscard
Measurement Group: Diameter Ingress Transaction Exception
Measurement Type: Simple
Measurement Dimension: Arrayed (by Connection ID)
Description: The number of egress Diameter messages that were discarded because the socket wasnot writable.
Collection Interval: 5 min
Peg Condition: For each egress Diameter message discarded because the socket was not writable.

RxMpMsgPri0
Measurement Group: Message Priority
Measurement Type: Simple
Measurement Dimension: Single
Description: Total number of ingress messages assigned message priority 0.
Collection Interval: 5 min
Peg Condition: Pegged when an ingress message is assigned a priority of 0.

RxMpMsgPri1
Measurement Group: Message Priority
Measurement Type: Simple
Measurement Dimension: Single

Description: Total number of ingress messages assigned message priority 1.
Collection Interval: 5 min
Peg Condition: Pegged when an ingress message is assigned a priority of 1.

RxMpMsgPri2
Measurement Group: Message Priority
Measurement Type: Simple
Measurement Dimension: Single
Description: Total number of ingress messages assigned message priority 2.
Collection Interval: 5 min
Peg Condition: Pegged when an ingress message is assigned a priority of 2.

EvEmrCongestionOnset
Measurement Group: Connection Congestion
Measurement Type: Simple
Measurement Dimension: Arrayed (by Connection ID)
Description: Number of times an EMR Congestion Level was advanced
Collection Interval: 5 min
Peg Condition Each time the EMR Congestion Level is advanced

EvRemoteBusyCongestion
Measurement Group: Connection Congestion
Measurement Type: Simple
Measurement Dimension: Arrayed (by Connection ID)
Description: Number of times Remote Busy Congestion occurred.
Collection Interval: 5 min
Peg Condition: Each time the Remote Busy Congestion Level changed from CL0 to either CL1, CL2 or CL3.