



Operations

- [API Additions or Changes, on page 1](#)
- [MIB Additions or Changes, on page 1](#)
- [SNMP Alarm Additions or Changes, on page 1](#)
- [Statistics/KPI Additions or Changes, on page 2](#)

API Additions or Changes

The following table provides information on new/modified APIs:

Table 1: API Additions or Changes

New/Modified APIs	Release Introduced/ Modified	Applicable Product(s)
DRA APIs and statistics are available under DRA Central page: <ul style="list-style-type: none">• DRA APIs: <a href="https://<Master-IP>/central/dra/#!/dra/docs/api">https://<Master-IP>/central/dra/#!/dra/docs/api• DRA Statistics: <a href="https://<Master-IP>/central/dra/#!/dra/docs/stats">https://<Master-IP>/central/dra/#!/dra/docs/stats	21.1.0	vDRA

MIB Additions or Changes

No changes were introduced in this release.

SNMP Alarm Additions or Changes

The following table provides information on new alarms added in 21.1.0 release:

Table 2: Alarm Additions

New Alarms	Release Introduced	Applicable Product(s)
CRD_CACHE_LOAD_ERROR	21.1.0	vDRA



Note This alarms mentioned in [Table 2: Alarm Additions, on page 2](#) have not been validated for all customer deployment scenarios. Please contact your Sales Account team for support.

For more information, see the following sections:

- *Application Notifications* table in the *CPS vDRA SNMP and Alarms Guide*
- *Sample Alert Rules* table in the *CPS vDRA SNMP and Alarms Guide*

Statistics/KPI Additions or Changes



Note This statistics mentioned in [Table 3: Statistics Additions, on page 2](#) have not been validated for all customer deployment scenarios. Please contact your Sales Account team for support.

The following tables provide information on new statistics:

Table 3: Statistics Additions

Statistics Name	Description	Applicable Product(s)
diameter_message_route_total	The number of messages classified based on a message class and route type. The following labels are supported for the metric: <ul style="list-style-type: none"> • message_type • route_type – selected route type • route_info – selected route information 	vDRA
diameter_message_timeout_total	The total number of request timeouts, classified based on message class.	vDRA
processed_control_messages_duration	Duration to process the control messages. Labels: System ID, Instance ID, Message Type Logger level: debug	vDRA

Statistics Name	Description	Applicable Product(s)
control_plane_local_publish_queue_drops	<p>The total number of messages dropped at local publisher queue.</p> <p>Labels: System ID, Instance ID</p> <p>Logger level: debug</p>	vDRA
control_plane_remote_peer_policy_accepts	<p>The total number of global control plane messages republished from remote systems.</p> <p>Labels: System ID, Application ID</p>	vDRA
control_plane_remote_peer_policy_drops	<p>The total number of global control plane messages dropped from remoter peers other than Rx.</p> <p>Labels: System ID, Application ID</p>	vDRA
topology_peer_expirations_total	<p>The total number of peers expired in each topology.</p> <p>Labels: System ID, Peer FQDN, Peer realm</p> <p>Logger level: debug, dra.stats.topology</p>	vDRA
cer_message_rejected_admin_disabled_peer	<p>The total number of CER messages from admin disabled peers rejected by application.</p> <p>Labels:</p> <ul style="list-style-type: none"> • remote_peer_host: Origin host of the peer. • remote_peer_realm: Origin realm of the peer. • local_peer: DRA endpoint FQDN. 	vDRA

Statistics Name	Description	Applicable Product(s)
peer_connection_admin_disconnects	<p>The total number of peer connections which were disconnected by DRA due to user (administrator) action. A disconnect could be initiated by user for following reasons:</p> <ul style="list-style-type: none"> • To force peer to reconnect. • To administratively disable the peer. <p>Labels:</p> <ul style="list-style-type: none"> • remote_peer_host: Origin host of the peer. • remote_peer_realm: Origin realm of the peer. • local_peer: DRA endpoint FQDN. • disconnect_cause: Reason for disconnecting the peer. 	vDRA
crd_cache_load_total	<p>The total number of times CRD loads successfully or with exception (other than Mongo connection exception).</p> <p>Labels: STATUS_LABEL</p>	vDRA
crd_cache_table_load_failure_total	<p>The total number of failures per CRD table.</p> <p>Labels: CONFIG_NAME</p>	vDRA
crd_cache_table_load_retry_total	<p>The total number of retries per CRD table due to Mongo connection failure.</p> <p>Labels: CONFIG_NAME</p>	vDRA
binding_validation_error_total	<p>The total number of requests processed with invalid binding attribute(s).</p> <p>Labels: APP_ID_LABEL, MESSAGE_TYPE_LABEL, ATTR, ACTION_LABEL</p>	vDRA
late_answer_received_total	<p>The total number of answer message received after SLA timeout.</p> <p>Labels: APP_ID_LABEL, MESSAGE_TYPE_LABEL</p>	vDRA

Statistics Name	Description	Applicable Product(s)
message_processing_time	<p>The time taken to process the message and send it to the peer.</p> <p>Labels: REMOTE_PEER_LABEL, LOCAL_PEER_LABEL, APP_ID_LABEL, TYPE_LABEL, MESSAGE_TYPE_LABEL</p>	vDRA
message_processing_total	<p>The total number of message processed within SLA.</p> <p>Labels: REMOTE_PEER_LABEL, LOCAL_PEER_LABEL, APP_ID_LABEL, TYPE_LABEL, MESSAGE_TYPE_LABEL</p>	vDRA
send_listener_drop	<p>The total number of message dropped at send-listener due to exception.</p> <p>Labels: SYSTEM_ID_LABEL, INSTANCE_ID_LABEL, APP_ID_LABEL, TYPE_LABEL, MESSAGE_TYPE_LABEL</p>	vDRA
recv_mesg_process_time	<p>Time required to process and find route before sending to director.</p> <p>Labels: REMOTE_PEER_LABEL, LOCAL_PEER_LABEL, APP_ID_LABEL, DIRECTION_LABEL, TYPE_LABEL, MESSAGE_TYPE_LABEL.</p> <p>Logger level: Debug</p>	vDRA

Statistics Name	Description	Applicable Product(s)
recv_mesg_ processed_total	<p>The total number of message received to route to peer.</p> <p>Labels: REMOTE_PEER_LABEL, LOCAL_PEER_LABEL, APP_ID_LABEL, DIRECTION_LABEL, TYPE_LABEL, MESSAGE_TYPE_LABEL.</p> <p>Logger level: Debug</p>	vDRA

The following tables provide information on modified statistics:

Table 4: Statistics Modification/Changes

Statistics Name	Description	Applicable Product(s)
duplicate_control_messages_total	<p>Currently, this KPI only accounts duplicate messages detected using version number. This metric is enhanced to also account the duplicate messages received for local peers received over global control plane.</p> <p>A peer status message published by a system on global control plane is also received by nodes local to the system. These messages are redundant and are dropped as nodes local to a site learn the topology directly over local control plane.</p>	vDRA
diameter_request_total	<p>The number of diameter messages received.</p> <p>New Filter attribute added: Message Class</p>	vDRA
diameter_request_duration_seconds	<p>The duration for processing diameter request message.</p> <p>New Filter attribute added: Message Class</p>	vDRA
relay_message_total	<p>The number of messages relayed</p> <p>New Filter attribute added: Message Class</p>	vDRA
relay_peer_messages_total	<p>The number of messages on the relay link.</p> <p>New Filter attribute added: Message Class</p>	vDRA
relay_error_total	<p>The number of error encountered while message relay.</p> <p>New Filter attribute added: Message Class</p>	vDRA

Statistics Name	Description	Applicable Product(s)
docker_service_up	Status of docker service containers. New Filter attribute added: exitcode, OOMKilled, inspect_status	vDRA

