

# **GENESYS**

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## Interaction Server Private Edition Guide

Interaction Server (IXN) metrics and alerts

### Contents

- 1 Metrics
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Find the metrics Interaction Server (IXN) exposes and the alerts defined for Interaction Server (IXN).

Service	CRD or annotations?	Port	Endpoint/Selector	Metrics update interval
Interaction Server (IXN)	PodMonitor	13131, 13133, 13139	option ixnServer.ports.health - default port 13131 - Endpoint: "/health/ prometheus/all"  option ixnNode.ports.default - default port 13133 - Endpoint: "/metrics"  option ixnVQNode.ports.health - default port 13139 - Endpoint: "/metrics"  Note: The above options are references to ports that match endpoints. Use these options to perform the associated query.	Default

#### Metrics

This table includes IXN Server metrics and IXN Node metrics. IXN Node metrics begin with the prefix ixnnode.

**Note**: There are more metrics than the ones listed in the table. However, only the metrics listed in the table are supported.

Metric and description	Metric details	Indicator of
ixn_health_info_current_clients Indicates the number of clients that are connected to IXN at the moment.	Unit: Amount  Type: Gauge Label: None Sample value: 5	Workload
ixn_health_info_current_routers Indicates the number of 'connected to' IXN routers.	Unit: Amount Type: Gauge Label: None Sample value: 1	Workload, Operability
<pre>ixn_health_info_client_count { client_type_name="Agent application" }</pre>	Unit: Amount  Type: Gauge Label: client_type_name. See the metric description for more details.	Workload

Metric and description	Metric details	Indicator of
Indicates the number of clients with specified type, connected to IXN.  Label descriptions:  • client_type_name - type of connected clients. Possible values are:  • Unknown  • Proxy  • Agent application  • Media server  • Reporting engine  • Routing engine  • Universal router  • Third party client.	Sample value: 101	
ixn_health_info_router_total_su { router_name="URServer" } Indicates the total number of interactions that have been submitted to the router.  Label descriptions: router_name - the name of the router into which the interactions have been submitted.	Unit: Amount  Type: Counter Label: router_name. See the metric description for more details.  Sample value: 33	Workload, Operability
<pre>ixn_health_info_router_strategy { router_name="URServer",     strategy_name="AAAstarterStr     strategy_tenant="1" }  Indicates the number of strategies with     specified name loaded into a specified     router.  Label descriptions:  • router_name - the name of     the router into which the     interactions are loaded  • strategy_name - name of     strategy  • strategy_tenant - tenant     number</pre>		Workload

Metric and description	Metric details	Indicator of
<pre>ixn_health_info_router_current { router_name="URServer" }  Indicates the current capacity of a specified router - the number of interactions, not including those already submitted, that can be submitted into the router.  Label descriptions: router_name - name of router.</pre>	Capacity  Unit: Amount  Type: Gauge Label: router_name. See the metric description for more details.  Sample value: 987	Workload, Operability
<pre>ixn_health_info_router_currentl { router_name="URServer" } Indicates the number of interactions that are in a specified router. Label descriptions: router_name - name of router.</pre>	y_submitted Unit: Amount  Type: Gauge Label: router_name. See the metric description for more details. Sample value: 13	Workload, Operability
ixn_health_info_current_strateg Indicates number of strategies which are associated with active submitters.	Unit: Amount Type: Gauge Label: None Sample value: 11	Workload
<pre>ixn_health_info_router_max_sub { router_name="URServer" }  Indicates the maximum capacity of specified router - the number of interactions, that can be submitted into the router.  Label descriptions:  • router_name - name of router.  ixn_health_info_router_max_submitted = ixn_health_info_router_currently_submitted + ixn_health_info_router_current_capacity</pre>	Unit: Amount  Type: Gauge Label: router_name. See the metric description for more details.  Sample value: 1000	Workload, Operability
ixn_health_info_current_databa Indicates the current database requests queue length.	SUnit: Amount se_requests Type: Gauge Label: None Sample value: 0	Workload, Operability
ixn_health_info_total_database_ Indicates the number of processed database requests from IXN application start till current moment.	ridqitesits.ount  Type: Counter Label: None Sample value: 75	Workload, Operability
ixn_health_info_current_databa Indicates the current number of DB connections.	SU_rionAenctions  Type: Gauge Label: None	Workload, Operability

Metric and description	Metric details	Indicator of
	Sample value: 5	
ixn_health_info_total_database	deaidlocksunt	
Indicates the total number of database queries that end up with a deadlock for all the time since IXN started.	Type: Counter Label: None Sample value: 0	Workload, Operability
ixn_health_info_router_strategy { router_name="URServer", strategy_name="AAAStarterToostrategy_tenant="1" }		
Indicates the Unix timestamp when last interaction has been submitted to router for specified strategy.	Unit: Unix timestamp	
Label descriptions:	Type: Gauge Label: router_name, strategy_name,	Workload, Operability
<ul><li>router_name - name of router;</li></ul>	strategy_tenant. See the metric description for more details.  Sample value: 1618322383	Transcrut, operations,
<ul> <li>strategy_name - name of strategy;</li> </ul>	Sample value: 1010322303	
<ul> <li>strategy_tenant - tenant number.</li> </ul>		
ixn_health_info_queue_media_w {    queue_name="AAAstarterQueue    queue_tenant="1",    media_name="chat" }  Indicates the current number of    interactions with specified media type    that are waiting for processing in a    specified queue.  Label descriptions:     queue_name - name of    queue;     queue_tenant - tenant    number;		Workload
<ul> <li>media_name - media type.</li> <li>Note: This value is provided in Pulse as well.</li> </ul>		
<pre>ixn_health_info_agent_logged_i { agent tenant="1" }</pre>	ո <b>բշար</b> Մարդ Amount	
Indicates the current number of logged in agents.	Type: Gauge Label: agent_tenant. See the metric	Workload
Label descriptions:	description for more details.  Sample value: 565	

Metric and description	Metric details	Indicator of
agent_tenant - tenant number.		
ixn_health_info_queue_media_in { queue_name="toAgent",  queue_tenant="1",  media_name="chat" }  Indicates the number of the interactions  with specified media type from a  specified queue being routed.  Label descriptions:  • queue_name - name of queue  • queue_tenant - tenant  number  • media_name - media type	Unit: Amount  Type: Gauge Label: queue_name, queue_tenant, media_name. See the metric description for more details. Sample value: 10	Workload, Operability
ixn_health_info_queue_media_o { queue_name="toAgent",  queue_tenant="1",  media_name="chat" }  Indicates the number of the interactions  with specified media type from specified  queue being handled by agents.  Label descriptions:  • queue_name - name of queue  • queue_tenant - tenant  number  • media_name - media type	Unit: Amount  Type: Gauge Label: queue_name, queue_tenant, media_name. See the metric description for more details. Sample value: 5	Workload, Operability
ixn_health_info_queue_media_c { queue_name="toAgent",   queue_tenant="1",   media_name="chat" }  Indicates the number of interactions with   specified media type that are waiting   processing in specified queue and were   never delivered to agent.  Label descriptions:    queue_name - name of queue    queue_tenant - tenant   number    media_name - media type  Note: This value is provided in Pulse as   well.	Unit: Amount  Type: Gauge Label: queue_name, queue_tenant, media_name. See the metric description for more details.  Sample value: 2	Workload, Operability
ixn_health_info_queue_media_ir	<b>lpmidce/ssin.g</b> nt	Workload, Operability

Metric and description	Metric details	Indicator of
{ queue_name="toAgent", queue_tenant="1", media_name="chat" }  Indicates the sum of the interactions with specified media type from specified queue being routed by routers and being handled by agents.  Label descriptions:  queue_name - name of queue  queue_tenant - tenant	Type: Gauge Label: queue_name, queue_tenant, media_name. See the metric description for more details.	
number  • media_name - media type  ixn_health_info_queue_media_in_processing  = ixn_health_info_queue_media_in_router  + ixn_health_info_queue_media_on_agent	Sample value: 15	
<b>Note</b> : This value is provided in Pulse as well.		
ixn_health_info_router_strategy { router_name="URServer",     strategy_name="AAAStarterTo/strategy_tenant="1" }  Indicates the number of interactions     which are submitted to specified router     by specified strategy at the moment.  Label descriptions:  • router_name - name of router  • strategy_name - name of     strategy  • strategy_tenant - tenant     number	Unit: Amount  Type: Gauge Label: router_name, strategy_name, strategy_tenant. See the metric description for more details.  Sample value: 3	Workload, Operability
ixn_health_info_router_strategy { router_name="URServer",     strategy_name="AAAStarterToAstrategy_tenant="1" }  Indicates the number of interactions that can be submitted more to specified router by specified strategy.  Label descriptions:  • router_name - name of router • strategy_name - name of strategy • strategy_tenant - tenant number		Workload, Operability

Metric and description	Metric details	Indicator of
ixn_health_info_router_strategy { router_name="URServer",     strategy_name="AAAStarterToostrategy_tenant="1" }  Indicates the number of interactions that     were submitted to specified router by     specified strategy since IXN app start till     now.  Label descriptions:  • router_name - name of router  • strategy_name - name of     strategy  • strategy_tenant - tenant     number		Workload, Operability
ixnnode_interactions_pulled_to	tal	
Indicates the total number of the interactions pulled for the specific strategy. <b>Label descriptions</b> :  strategy - The name of the strategy for which interactions are pulled.	Unit: Amount  Type: Counter Label: strategy. See the metric description for more details.  Sample value:	Workload, Operability
ixnnode_routing_sessions_curred Indicates the current number of the routing sessions in routing.	Type: Gauge Label: None Sample value:	Workload
ixnnode_all_instructions_receiv Indicates the total number of instructions (of any type) received from ORS service.	ed_tittalmount Type: Counter Label: None Sample value:	Workload, Operability
<ul> <li>ixnnode_routing_instructions_relations</li> <li>Indicates the total number of received routing instructions.</li> <li>Label descriptions:         <ul> <li>strategy - The name of the strategy for which routing instructions is received.</li> <li>type - The type of the instruction. It takes values "terminal" and "nonterminal". Terminal instructions are RequestDeliver, RequestPlaceInQueue,</li> </ul> </li> </ul>	Unit: Amount  Type: Counter Label: strategy, type. See the metric description for more details.  Sample value:	Workload, Operability

Metric and description	Metric details	Indicator of
RequestPlaceInWorkbin, RequestStopProcessing.		
ixnnode_redis_client_status		
Indicates the status of Redis client.		
Label descriptions:	Unit: Status	
redis_client - The Redis client instance for which the metric is present. It takes values "reader" and "writer".	Type: Gauge Label: redis_client. See the metric description for more details. er". Sample value:	Operability
Value:	Sample value.	
0 - Not Ready		
1 - Ready		
ixnnode_redis_client_errors_tot	al	
Indicates the total number of errors	Unit: Amount	
occurred on Redis client.  Label descriptions:	Type: Counter Label: redis client. See the metric	Error
redis_client - The Redis client instance for which the metric is present. It takes values "reader" and "writer".	description for more details.  Sample value:	
ixnnode_redis_client_node_stat	us	
Indicates the status of connection to individual nodes of Redis server (in singleton mode matches to ixnnode_redis_client_status).		
Label descriptions:		
<ul> <li>redis_client - The Redis client instance for which the metric is present. It takes values "reader" and "writer".</li> </ul>	Unit: Status  Type: Gauge Label: redis client, node. See the metric	Operability
<ul> <li>node - The node of Redis server for which the metric is present as "host:port".</li> </ul>	description for more details.  Sample value:	5 p 5 s 5 s 5 s 5 s 5 s 5 s 5 s 5 s 5 s
Value:		
0 - Ready		
1 - Not Ready		
2 - Wait (so far there have been no connection attempts)		
ixnnode_redis_client_node_erro	r <b>si_ntitta4</b> mount	
Indicates the total number of errors occurred on individual nodes of Redis client (in singleton mode matches to	<b>Type:</b> Counter <b>Label:</b> redis_client, node. See the metric description for more details.	Error

Metric and description	Metric details	Indicator of
<ul> <li>ixnnode_redis_client_errors_total).</li> <li>Label descriptions:</li> <li>redis_client - The Redis client instance for which the metric is present. It takes values "reader" and "writer".</li> <li>node - The node of Redis server for which the metric is present as "host:port".</li> </ul>	Sample value:	
ixnnode_redis_commands_comp	oleted_total	
Indicates the total number of successfully completed redis commands.  Label descriptions:  redis_client - The Redis client instance for which the metric is present. It takes values "reader" and "writer".  command - The Redis command for which the metric is present. It takes values "xadd", "xread", "xdel".	Unit: Amount  Type: Counter Label: redis_client, command. See the metric description for more details.  Sample value:	Workload, Operability
ixnnode_redis_commands_faile	d_total	
Indicates the total number of failed redis commands.  Label desriptions:  redis_client - The Redis client instance for which the metric is present. It takes values "reader" and "writer".  command - The Redis command for which the metric is present. It takes values "xadd", "xread", "xdel".	Unit: Amount  Type: Counter Label: redis_client, command. See the metric description for more details.  Sample value:	Error
ixnnode_rq_client_status Indicates the status of connection to RQ Service nodes.  Label descriptions: rq_node - RQ Service node for which the metric is present.	Unit: Status  Type: Gauge Label: rq_node. See the metric description for more details. Sample value:	Operability

Metric and description	Metric details	Indicator of		
ixnnode_rq_requests_failed_total				
Indicates the total number of failed requests to RQ Service.	Unit: Amount			
Label descriptions:	Type: Counter Label: type. See the metric description	Error		
type - The type of the failed requests. It takes values "isp_event" - interaction protocol evnts and "ixn_ping" - health check messages.	for more details.  Sample value:			
ixnnode_instructions_processin	g <b>Uqite</b> We <u>n</u> oonturrency_limit			
Indicates the maximum number of routing instructions that can be processed in parallel.	Type: Gauge Label: None Sample value:	n/a		
ixnnode_instructions_processin	g_queue_size			
Indicates the number of instructions received from ORS currently being processed. <b>Label descriptions</b> :  type - The type of the instruction. It takes values "isp_request" - routing instruction and "ixn_ping" - reply to health check message.	Unit: Amount  Type: Gauge Label: type. See the metric description for more details.  Sample value:	Workload, Operability		
ixnnode_pull_request_total				
Indicates the total number of RequestPull requests successfully completed by InteractionServer. <b>Label descriptions</b> :  strategy - The strategy for which interactions are pulled.	Unit: Amount  Type: Counter Label: strategy. See the metric description for more details.  Sample value:	Workload, Operability		
ixnnode_route_request_sent_to	tal			
Indicates the total number of route requests successfully sent to ORS. <b>Label descriptions</b> :  strategy - The strategy to which requests are sent.	Unit: Amount  Type: Counter Label: strategy. See the metric description for more details.  Sample value:	Workload, Operability		
ixnnode_route_request_failed_total				
Indicates the total number of route requests failed to send to ORS.	Unit: Amount  Type: Counter	Firmer		
Label descriptions:	<b>Label:</b> strategy. See the metric description for more details.	Error		
strategy - The strategy to which requests are sent.	Sample value:			
ixnnode_instructions_processed	l_UbryitixAncounrent	Workload		

Metric and description	Metric details	Indicator of	
Indicates the number of routing instructions currently being processed by IXN Server.	Type: Gauge Label: None Sample value:		
ixnnode_interactions_placed_ba	ack_total		
Indicates the total number of times an interaction was placed back in queue.			
Label descriptions:			
<ul> <li>reason - The reason of placing back in queue. It takes values:         "StrategyOldQueueRequest" - Strategy explicitly requested to place to valid queue with name (not "BACK") matching the name of queue interaction was pulled from. Set by ORS.         "StrategyBackRequest" - Strategy requested placing interaction "BACK" explicitly. Set by ORS.         "Implicit" - Strategy did nothing and ORS places interaction back cause there are no instructions for it. Set by ORS.         "Error" - ORS places interaction back into queue due to some error regardless of the error source be it strategy itself or any other reason. Set by ORS.         "SubmitError" - IXN Node failed to send interaction to ORS and places it back into queue.         "Unknown" - The reason was not specified by ORS.</li> <li>strategy - The strategy which routed interactions.</li> </ul>	Unit: Amount  Type: Counter Label: reason, strategy. See the metric description for more details.  Sample value:	Workload, Error, ORS Error	
ixnnode_running_strategies_current: Amount			
Indicates the number of the strategies for which interactions currently are being pulled.	Type: Gauge Label: None Sample value:	Operability	
ixnnode_configured_strategies_cluniten4:mount			
Indicates the number of the strategies read from configuration for which interactions should be pulled.	Type: Gauge Label: None Sample value:	Operability	

Metric and description	Metric details	Indicator of
ixnnode_configuration_fetch_errolleritoftalount		
Indicates the total number of error occurred while fetching configuration from Configuration Service.	Type: Counter Label: None Sample value:	Error
ixnnode_last_fetched_configuration;timestamp		
Indicates the last time the configuration was successfully fetched from Configuration Service as the number of seconds since January 1 1970 UTC.	Type: Gauge Label: None Sample value:	Operability

### Alerts

No alerts are defined for Interaction Server.