



UtilityIQ 6.0 and Supported Products Ports and Protocols

UtilityIQ 6.0 and Supported Products Ports and Protocols

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New in this document

Table 1 New in this document

Revision	Date	Description
REV 000	August 6, 2024	First publication.

1

Customer connections

Destination	Port	Description and configurable property
AMMJMSRoute	5627	SSL port for accessing JMX interface AMM_JMS_ROUTE_SSL_PORT
AMMWSRoute	3009	AMMWSRoute listener port AMMWSROUTE_PORT
AMMWSProxy	5640	AMMWSProxy listens on this port and receives messages AMMWSPROXY_WEBAPP_SSL_PORT
CAAS	6343	Traffic from authenticating applications comes through this port CAAS_SSL_HTTP_PORT
DA	8043	Traffic from authenticating applications comes through this port DA_SSL_PORT
DA	8080	HTTP port, redirects to HTTPS DA_HTTP_PORT
DINA	8643	DINA UI port DINA_SSL_HTTP_PORT
FWU	4043	Used for FWU UI access. FWU_SSL_HTTP_PORT
HCM	6444	Traffic from authenticating applications comes through this port to HCM from both browsers and back office components. HCM_SSL_HTTP_PORT
HCMWSROUTE	6443	TCP port ESB uses to listen for HCM web service calls. HCMWSROUTE_PORT
MPC	5044	Access to MPC UI. Used to specify listening port when multiple IP addresses exist on one server. By default, this port is used on all IP addresses associated with the server. MPC_SSL_HTTP_PORT
MPCWSRoute	5043	Application service listen port MPCWSROUTE_JMX_SSL_PORT

Destination	Port	Description and configurable property
MT	3043	Internal web service access SHARED_AMM_INTERNAL_WEBAPP_SSL_PORT
MT	3010	UI access SHARED_AMM_WEBSERVICE_PORT
NEC	6943	Access to NEC UI SHARED_NEC_HTTPS_PORT
NEM UI	6543	NEM UI access NMSUI_SSL_HTTP_PORT
Network Center	7543	Access to Network center UI NMS_CEPNMS_SSL_HTTP_PORT
Network Center ES	7643	Access to Network Center Elasticsearch UI and Kibana reports NMS_ES_SSL_HTTP_PORT
ODS	3144	UI access. ODS_SSL_HTTP_PORT
ODSWSROUTE	3143	Port which accepts incoming requests for odswsroute (from A10 load balancer in HA deployments). ODSWSROUTE_PORT
SAM	8243	Access to FSU-SAM UI SAM_SSL_HTTP_PORT
SensorIQ	6843	SensorIQ UI access. SENSORIQ_SSL_HTTP_PORT
SENSORIQWSROUTE	5618	Web Service API Endpoint SENSORIQWSROUTE_PORT
SENSORIQWSROUTE	5620	SSL port for accessing JMX interface SENSORIQWSROUTE_JMX_SSL_PORT
SSNAgent	5675	SSNI Agent web service port ESB_SSN_AGENT_PORT
TIBCO	7243	JMS messaging between back-office components; message broker for delivering data to customers. SHARED_TIBCOEMS_SSL_PORT

Destination	Port	Description and configurable property
TIBCO CONF FILES	7243	SSL/TLS port used to accept connection SHARED_TIBECOEMS_SSL_PORT
ZTP	7945	Traffic from provisioning applications comes through this port to ZTP ZTP_SSL_HTTP_PORT

2 AMMWSROUTE

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	AMMWSRoute listener port	Customer	AMMWSROUTE_HTTP_SSL_PORT	http	IPv4	3009	None
tcp	HTTPS management port	False	AMMWSROUTE_HTTP_SSL_MANAGEMENT_PORT	https	IPv4	5602	None

Outbound traffic

External Facing	Component Name	Description	Port Property	Protocol	Application Protocol	Type	Port
False	amm	AMM internal web services	AMMWSROUTE_HTTP_SSL_AMMPORT	tcp	http	IPv4	3043
False	caas	caas authentication	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343

3 ACTIVEMONITOR

Active Monitor an application used to test features of other components to ensure they up and working.

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	reg	DNS protocol queries	SHARED_DNS_PORT	udp	dns	IPv4	53
False	tmb	Active monitor sends test traps to TMB	ACTIVEMONITOR_TRAP_MONITOR_PORT	udp	http	IPv6	647
False	ammwsroute	Port for external webservice calls to ammwsroute	ACTIVEMONITOR_ESB_PORT	tcp	http	IPv4	3009
False	amm	Port for internal webservice calls to AMM	SHARED_AMM_INTERNAL_WEBAPP_SSL_PORT	tcp	http	IPv4	3010
False	tibco	JMS client connections to consume messages	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243
False	tibco	Tibco failover port	SHARED_TIBCOEMS_FAILOVER_SSL_PORT	tcp	ssl	IPv4	7243
False	amm	Metrics reporting service (splunk)	ACTIVEMONITOR_AMM_METRICS_PORT	tcp	http	IPv4	8089

4 AMMJMSROUTE

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	HTTPS management port	False	AMMJMSROUTE_HTTP_SSL_PORT	https	IPv4	5627	None

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	caas	caas authentication	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343
False	tibco	TIBCO EMS failover port	SHARED_TIBCOEMS_FAILOVER_SSL_PORT	tcp	ssl	IPv4	7243

5 AMMWSProxy

Inbound traffic

Protocol	Description	External facing	Port property	ApplicationpProtocol	Type	Port
tcp	Application Operation WS Port	False	AMMWSPROXY_WEBAPP_SSL_PORT	http	IPv4	5640
tcp	Application Operation WS Port	False	AMMWSPROXY_WEBAPP_PORT	https	IPv4	5650
tcp	Port for Jolokia JMX listener	False	AMMWSPROXY_JMX_SSL_PORT	ssl	IPv4	5641

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	amm	Outbound known AMMWSRoute Port	AMMWSPROXY_OUTBOUND_WEBAPP_SSL_PORT	tcp	http	IPv4	3009

6 AMMMULTISPEAK

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Application Inbound SSL port	False	AMMMULTISPEAK_SERVICE_PORT	https	IPv4	5603
tcp	Port for Jolokia JMX listener	False	AMMMULTISPEAK_JMX_SSL_PORT	ssl	IPv4	5605

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	tibco	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243
False	ODS	ODS web service port	AMMMULTISPEAK_ODS_PORT	tcp	ssl	IPv4	3143

7 CAAS

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Traffic from authenticating applications comes through this port to CAAS from both browsers and back office components.	Customer	CAAS_SSL_HTTP_PORT	https	IPv4	6343
tcp	Used by Tomcat management commands to shut down application. This is localhost only.	False	CAAS_SHUTDOWN_PORT		IPv4	6305

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	Oracle	Oracle database server	SHARED_AMM_DB_PORT	tcp	OCI	IPv4	1522



Inbound traffic

Protocol	Description	Port property	Application protocol	External facing	Type	Port
tcp	Application Inbound SSL Port	CMEPEXPORTER_SERVICE_PORT	https	unlisted	IPv4	5808
tcp	Port for Jolokia JMX listener	CMEPEXPORTER_JMX_SSL_PORT	ssl	unlisted	IPv4	5830

Outbound traffic

Component name	Description	Port property	Protocol	Application protocol	Type	Port	External facing
unlisted	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243	unlisted
unlisted	DTA Outbound SSL Port	CMEPEXPORTER_DTA_SERVICE_PORT	tcp	https	IPv4	5809	unlisted



Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Application Inbound SSL Port	False	CREFEXPORTER_SERVICE_PORT	https	IPv4	5833
tcp	Port for Jolokia JMX listener	False	CREFEXPORTER_JMX_SLL_PORT	ssl	IPv4	5832

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False		SSL/TLS port used to communicate with Tibco	SHARED__ TIIBCOEMS__ SSL__PORTT	tcp	ssl	IPv4	7243

10 CRYPTKEEPER

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	CK provides web services here	False	CRYPTKEEPER_SSL_HTTP_PORT	https	IPv4	9443
tcp	gRPC port used to perform 500S encrypt/decrypt from Nicnac clients	False	CRYPTKEEPER_ENCRYPTIONSERVICE_PORT	gRPC	IPv4	9423

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False		SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243
False	caas	CAAS is used to authenticate Jolokia connections.	SHARED_CAAS_SSL_PORT	tcp	ssl	IPv4	6343
False	dlca	DLCA REST client for validating EDHOC certs	CRYPTKEEPER_VALIDATION_DLCARESTLETPORT	tcp	http	IPv4	7343



Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Traffic from authenticating applications comes through this port to Gridscape from both, browsers and back office components	Customer	DA_SSL_PORT	https	IPv4	8043
tcp	HTTP port, redirects to HTTPS	Customer	DA_HTTP_PORT	http	IPv4	8080
tcp	AJP port	False	DA_AJP_PORT		IPv4	8009
tcp	Shutdown port	False	DA_SHUTDOWN_PORT		IPv4	8005
tcp	Gpfdist port for external tables	False	DA_GPFDIST_PORT		IPv4	8081

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	greenplum	Greenplum database access port	DA_STATS_DB_PORT	tcp		IPv4	5432
False	greenplum	The first port that gpload uses to start its own copy of gpfdist	DA_Gpload_START_PORT	tcp		IPv4	8082
False	greenplum	The last port that gpload uses to start its own copy of gpfdist	DA_Gpload_END_PORT	tcp		IPv4	8099
False	oracle	Oracle database access port	DA_OLTP_DB_PORT	tcp		IPv4	1522

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	caas	CAAS authentication	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343
False	reg	Standard DNS server queries port to all applications communicate	SHARED_DNS_PORT	udp	dns	IPv4	53
False	reg	Standard DNS server queries port to all applications communicate	SHARED_DNS_PORT	tcp	dns	IPv4	53
False	dms	HTTP port for the DMS API	SHARED_DMS_HTTP_PORT	tcp	http	IPv4	7080
False	dms	HTTPS port for the DMS API	SHARED_DMS_HTTP_SSL_PORT	tcp	https	IPv4	7043
False	tibco	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243
False	gateway	Outbound connection to Gateway	NICNAC_GATEWAYS	tcp	protobuf	IPv4	7881
False	cryptkeeper	Outbound connection to cryptkeeper	NICNAC_SECURITY_CRYPT_KEEPER_PORT	tcp	https	IPv4	9443
False	HSM	Outbound connection to HSM	None	tcp		IPv4	288
False	SMTP	To send email alerts from Gridscape	None	tcp	smtp	IPv4	25
Mesh	mesh	rfnetwork	None	udp	netmgr	IPv6	645
Mesh	mesh	rfnetwork	None	udp	netmgr	IPv4	645
Mesh	mesh	rfnetwork	None	udp	rf_ping	IPv6	646
Mesh	mesh	rfnetwork	None	udp	netmgr	IPv6	648
Mesh	mesh	rfnetwork	None	udp	netmgr	IPv4	648

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DATATRANSFER

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Application operation configuration port	False	DATATRANSFER_CONFIG_MGR_SERVICE_PORT	https	IPv4	5621
tcp	Application operation configuration port	False	DATATRANSFER_CONFIG_MGR_SERVICE_PORT	https	IPv4	5609
tcp	Port for Jolokia JMX listener	False	DATATRANSFER_JMX_SSL_PORT	ssl	IPv4	5623

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	tibco	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243

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DICODEDEPLOYER

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	HTTPS management port	False	DICODEDEPLOYER_HTTP_SSL_PORT	https	IPv4	9143	None

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	FWU	FWU UI access	FWU_SSL_HTTP_PORT	tcp	https	IPv4	4043
False	tibco	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243
False	caas	CAAS authentication	SHARED_CAAS_SSL_PORT	tcp	SSL	IPv4	6343

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DINA

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	DINA UI port	Customer	DINA_SSL_HTTP_PORT	https	IPv4	8643
tcp	Ignite communication ports. The range is 8670-8679	False		ssl	IPv4	8670

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	DINA	Oracle database access	DINA_DB_PORT	tcp		IPv4	1521
False	dms	HTTP listening port for SSL traffic, when enabled.	SHARED_DMS_HTTP_SSL_PORT	tcp	ssl	IPv4	7043
False	DMS	Standard DMS server port	SHARED_DMS_HTTP_PORT	tcp		IPv4	7080
False	Gateway	Gateway protocol buffer messaging API	SHARED_GATEWAY_PORT	tcp		IPv4	7881
False	Reg	DNS protocol queries.	SHARED_DNS_PORT	tcp	dns	IPv4	53
False	tibco	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
		Ignite communication ports. The range is 8670-8679		tcp	ssl	IPv4	8670
False	caas	CAAS is used to authenticate Jolokia and DMS connections.	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343

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DINA-SHIM

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	HTTPS management port	False	DINASHIM_HTTP_SSL_PORT	https	IPv4	8686	None

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	rabbitmq	SSL/TLS port used to communicate with RabbitMQ	DINASHIM_RMQ_BROKER_PORT	tcp	http	IPv4	5671
False	tibco	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243
False	caas	CAAS is used to authenticate Jolokia and DMS connections	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343

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DLCA

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
udp		False	DLCA_NDXP_PORT	netmgr	IPv6	1640
tcp		False	DLCA_HTTP_SSL_PORT	ssl	IPv6	7343
tcp	Web services for back-end applications. Internal to Itron; not currently in use. Reserved for a future release.	False		http	IPv4	7300

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	dms	HTTP listening port for SSL traffic, when enabled. Currently unused and disabled.	SHARED_DMS_HTTP_SSL_PORT	tcp		IPv4	7043
False	dms	HTTP port for the DMS API.	DLCA_DMS_SERVER_PORT	tcp		IPv4	7080
False	Tibco	TMB is a Tibco client.	SHARED_TIBCOEMS_SSL_PORT	tcp	SSL	IPv4	7243
False	Oracle	Oracle connection for DLCA's own DB.	DLCA_DB_PORT	tcp		IPv4	1521
False	Oracle	Optional Oracle connection for AMM device validation.	DLCA_VALIDATION_DB_PORT	tcp		IPv4	1521

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	HSM	Optional HSM connection port.		tcp		IPv4	288
False	caas	CAAS is used to authenticate Jolokia and DMS connections.	SHARED_CAAS_SSL_PORT	tcp	SSL	IPv4	6343

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DMS

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	Monitors SyncJob and application plugin health status with JMX	False	DMS_JMX_REMOTE_PORT	rmi	IPv4	7060	None
tcp	Port used by Graphite Reporter	False	DMS_GRAPHITE_CARBON_LINE_RECEIVER_PORT	http	IPv4	7703	None
tcp	JMX SSL Port	False	DMS_JMX_SSL_PORT	http	IPv4	7061	None
tcp	HTTP SSL port for the DMS API	False	SHARED_DMS_HTTP_SSL_PORT	http	IPv4	7043	None
tcp	HTTP port for the DMS API	False	SHARED_DMS_HTTP_PORT	http	IPv4	7080	None
tcp	Inbound elasticsearch port to listen to HTTP traffic	False	DMS_ES_HTTP_PORT	http	IPv4	7007	None
tcp	Inbound elasticsearch port for ES node to node communication	False	DMS_ES_TRANSPORT_PORT	http	IPv4	7006	None

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	Inbound elasticsearch 1.4 port to listen to elasticsearch 6.8 reindex HTTP API traffic	False	DMS_ES_MIGRATION_HTTP_PORT	http	IPv4	7107	
tcp	Inbound elasticsearch port for ES 1.4 to avoid ES 6.8 standard port already-in-use conflicts	False	DMS_ES_MIGRATION_TRANSPORT_PORT	http	IPv4	7106	

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	reg	DNS protocol queries.	SHARED_DNS_PORT	tcp	dns	IPv4	53
False	dms	None	DMS_ES_TRANSPORT_PORT	tcp		IPv4	7006
False	caas	None	SHARED_CAAS_SSL_PORT	tcp	http	IPv4	6343
False	Oracle	AMM DMS plugin	SHARED_AMM_DB_PORT	tcp		IPv4	1522
False	Oracle	Oracle listener port for AMM segment DBs	SHARED_AMM_SEGMENT_DB_PORT	tcp		IPv4	1522
False	hcm	HCM DMS plugin	HCM_DB_PORT	tcp		IPv4	1522
False	Oracle	Oracle listener port for fast failover scenario	SHARED_ORACLE_FAILOVER_DB_PORT	tcp		IPv4	1522

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	NAProxy	Port used to communicate with NAProxy	SHARED_NAPROXY_PORT	tcp	https	IPv4	9880
False	tibco	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	https	IPV4	7243

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FWU

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	FWU UI access	Customer	FWU_SSL_HTTP_PORT	https	IPv4	4043

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	Oracle	Oracle connection	SHARED_AMM_DB_PORT	tcp	OCI	IPv4	1522
False	Reg	None	None	tcp	dns	IPv4	53
False	CAAS	CAAS authentication	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343
False	Gateway	Gateway	SHARED_GATEWAY_PORT	tcp	http	IPv4	7881
False	SMTP	Used to send export data through email.	None	tcp	smtp	IPv4	25
False	DMS	None	SHARED_DMS_HTTP_PORT	tcp	http	IPv4	7080
False	DMS	None	SHARED_DMS_HTTP_SSL_PORT	tcp	https	IPv4	7043
False	Tibco	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243
False	NAProxy	Port used to communicate with NAProxy	SHARED_NAPROXY_PORT	tcp	https	IPv4	9880

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	encryptionervice		SHARED_ENCRYPTIONSERVICE_PORT	tcp	http	IPV4	9423
False				udp	netmgr	IPv6	645
False				udp	netmgr	IPv6	6458

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GATEWAY

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	Protocol buffer messaging API	False	GATEWAY_NETWORK_PROTO_PORT	protobuf	IPv4	7881	caas
udp	CoAP API	False	GATEWAY_NETWORK_COAP_PORT	CoAP	IPv4	5683	caas
tcp	Gateway admin server port	False	GATEWAY_HTTP_SSL_PORT	https	IPv4	7843	caas
udp	TMB trap listener	False	GATEWAY_NETWORK_TMB_PORT	MilliPubTraps	IPv4	5647	caas

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	reg	Outbound TCP connection to communicate with reg	SHARED_DNS_PORT	tcp	dns	IPv4	53
False	reg	Outbound UDP connection to communicate with reg	SHARED_DNS_PORT	udp	dns	IPv4	53
False	HSM	Outbound connection to HSM	None	tcp	null	IPv4	288
False	caas	Outbound connection to CAAS	SHARED_CAAS_SSL_PORT	tcp	null	IPv4	6343

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	cepnms	Metrics reporting	GATEWAY_METRICS_CEPNMS_PORT	tcp	http	IPv4	7543
False	ztp	Zero Touch Provisioning	GATEWAY_ACCOUNTS_DEVICEOWNERSHIP_VALIDATIONHOSTPORT	tcp	ztp	IPv4	7945
Mesh	mesh	rfnetwork	None	udp	netmgr	IPv6	644
Mesh	mesh	rfnetwork	None	udp	netmgr	IPv6	645
Mesh	mesh	rfnetwork	None	udp	netmgr	IPv6	648
Mesh	mesh	Milli secure rfnetwork	None	udp	netmgr	IPv6	4849
Mesh	mesh	Port used for sending all milli traffic to the mesh and receiving responses from those millis	None	udp	netmgr	IPv6	7886
False	HiveMQ	Connection to MQTT broker	SHARED_MQTT_BROKER_SSL_PORT	tcp	mqtt	IPv4	8883



Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
udp	Port for GMR CoAP client	False	GMR_COAP_CLIENT_PORT	coap	IPv4	3011
tcp	GMR JMX remote control	False	GMR_JMX_REMOTE_PORT	http	IPv4	9060
tcp	GMR web server	False	GMR_WEB_SERVER_PORT	https	IPv4	9080
tcp	GMR JMX web access	False	GMR_JMX_WEB_CONSOLE_PORT	https	IPv4	9090
tcp	Jolokia JMX access	False	GMR_JOLOKIA_PORT	https	IPv4	9091
tcp	Ignite node discovery ports. The range is 49500-49520			ssl	IPv4	49500
tcp	Ignite communication port.			ssl	IPv4	49100

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	gateway	Gateway COAP messages	GMR_GATEWAY_COAP_LISTEN_PORT	udp	coap	IPv4	5683
		Network Abstraction Proxy	SHARED_NAPROXY_PORT	tcp	grpc	IPv4	
False	tibco	TIBCO connection	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	tibco	Tibco failover port	SHARED_TIBCOEMS_FAILOVER_SSL_PORT	tcp	ssl	IPv4	7243
False	oracle	Oracle connection	SHARED_AMM_DB_PORT	tcp	null	IPv4	1522
False	oracle	Oracle connection	SHARED_AMM_SEGMENT_DB_PORT	tcp	null	IPv4	1522
False	reg	DNS lookups	SHARED_DNS_PORT	tcp	dns	IPv4	53
False	caas	CAAS connection	SHARED_CAAS_SSL_PORT	tcp	http	IPv4	6343
False	dms	DMS SSL port	SHARED_DMS_HTTP_SSL_PORT	tcp	ssl	IPv4	7043
False	dms	DMS server port	SHARED_DMS_HTTP_PORT	tcp	http	IPv4	7080
False	mesh	None	None	udp	netmgr	IPv6	645
False	mesh	None	None	udp	netmgr	IPv6	648
False	metrics	metrics	AMM_METRICS_PORT	tcp	http	IPv4	8089
False	scp	Used to send export data	None	tcp	scp	IPv4	22
False	hivemq	HiveMQ connection	SHARED_MQTT_BROKER_SSL_PORT	tcp	ssl	IPv4	8883
False	ftp	Used to send export data	None	tcp	ftp	IPv4	21

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
		Ignite node discovery ports. The range is 49500-49520		tcp	ssl	IPv4	49500
		Ignite communication port.		tcp	ssl	IPv4	49100
		Port used to communicate with NAProxy	SHARED_NAPROXY_PORT	tcp	https	IPv4	9800



Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Traffic from authenticating applications comes through this port to HCM from both, browsers and back office components	Customer	HCM_SSL_HTTP_PORT	https	IPv4	6444
tcp	Used by Tomcat management commands	False	HCM_SHUTDOWN_PORT	null	IPv4	6405

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	gateway	Gateway Protocol buffer messaging API	SHARED_GATEWAY_PORT	tcp		IPv4	7881
Mesh	tmb	Used by any application that wants to talk in secure mode over the RF network		udp		IPv6	648
False	nec		SHARED_NEC_HTTPS_PORT	tcp	http	IPv4	6943
False	ammwsroute		SHARED_AMM_WEBSERVICE_PORT	tcp		IPv4	3010
False	caas		SHARED_CAAS_SSL_PORT	tcp		IPv4	6343
False			HCM_DNS_REST_PORT	tcp	rest	IPv4	8182

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False			SHARED_DNS_PORT	tcp	dns	IPv4	53
False	Oracle	Oracle database access for all applications to communicate	HCM_DB_PORT	tcp		IPv4	1522
False	Oracle	Oracle database access for all applications to communicate	SHARED_AMM_DB_PORT	tcp		IPv4	1522
False	Tibco	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243

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HCMWSROUTE

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	TCP port ESB uses to listen for HCM web service calls.	Customer	HCMWSROUTE_PORT		IPv4	6443	None
tcp	Jolokia accessing port	False	HCMWSROUTE_JMX_SSL_PORT	https	IPv4	5617	

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	hcm	TCP port on which HCM WS uses to route calls to HCM	HCM_SSL_HTTP_PORT	tcp		IPv4	6444
False	caas	CAAS authentication for Jolokia.	SHARED_CAAS_SSL_PORT	tcp		IPv4	6343

23 HCMJMSROUTE

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	HTTPS management port	False	HCMJMSROUTE_HTTP_SSL_PORT	https	IPv4	5636	

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	caas	CAAS authentication for JoMX	SHARED_CAAS_SSL_PORT	tcp		IPv4	6343

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HIVEMQSSNCFG

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Reserved port for MQTT connections over SSL	False	SHARED_MQTT_BROKER_SSL_PORT	ssl	IPv4	8883
tcp	JMX RMI port	False	HIVEMQSSNCFG_JMX_SSL_PORT	ssl	IPv4	8887
tcp	HTTPS port for HiveMQ web UI (localhost only)	False	HIVEMQSSNCFG_HTTP_SSL_PORT	https	IPv4	8843

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	caas	CAAS authentication port	SHARED_CAAS_SSL_PORT	tcp	ssl	IPv4	6343

24 MDIIMPORTADPATER

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	HTTPS management port	False	MDIIMPORTADAPTER_ HTTP_SSL_PORT	https	IPv4	5872

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	caas	CAAS authentication	SHARED_ CAAS_SSL_ PORT	tcp	https	IPv4	6343



Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Used by Tomcat management commands	False	MPC_SHUTDOWN_PORT	http	IPv4	5005
tcp	Used by Tomcat management commands	False	MPC_AJP_PORT	ajp	IPv4	5009
tcp	Tomcat port to access MPC UI	Customer	MPC_SSL_HTTP_PORT	http	IPv4	5044
tcp	Port for MPC CoAP client	False	MPC_COAP_CLIENT_PORT	coap	IPv4	5045

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False		Used to send export data through email	None	tcp	smtp	IPv4	25
False	dms	HTTP SSL port for DMS API	SHARED_DMS_HTTP_SSL_PORT	tcp	ssl	IPv4	7043
False	dms	HTTP port for DMS API	SHARED_DMS_HTTP_PORT	tcp		IPv4	7080
False	reg	DNS Server port	SHARED_DNS_PORT	tcp	dns	IPv4	53
False				udp	syslog	IPv4	514
False		None	None	udp	netmgr	IPv6	645
False		None	None	udp	netmgr	IPv6	648

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	oracle	Oracle connection	SHARED_AMM_DB_PORT	tcp	http	IPv4	1522
False	amm	AMM web service calls	SHARED_AMM_WEBSERVICE_PORT	tcp	http	IPv4	3010
False	gateway	Port that Gateway CoAP client listens on	MPC_GATEWAY_COAP_LISTEN_PORT	tcp	coap	IPv4	5683
False	caas	CAAS authentication	SHARED_CAAS_SSL_PORT	tcp	http	IPv4	6343
False	tibco	None	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243
False	gateway	Gateway Protocol buffer messaging API	SHARED_GATEWAY_PORT	tcp	protobuf	IPv4	7881
False	cryptkeeper	Outbound connection to cryptkeeper auth endpoint	MPC_NICNAC_SECURITY_ENCRYPTIONSERVICE_HTTPPORT	tcp	https	IPv4	9443
False	cryptkeeper	Port used to communicate with cryptkeeper grpc API	MPC_NICNAC_SECURITY_ENCRYPTIONSERVICE_PORTNUMBER	tcp	https	IPv4	9423

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MPCWSROUTE

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	HTTPS management port	False	MPCWSROUTE_HTTP_SSL_PORT	https	IPv4	5043

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	mpc	MPC communication port	MPCWSROUTE_HTTP_SSL_MPCPORT	tcp	https	IPv4	5044
False	caas	caas authentication	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343

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MTR

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	HTTPS management port	False	MTR_HTTP_SSL_PORT	https	IPv4	8943	caas

outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	hivemqssncfg	Connection to MQTT broker	SHARED_MQTT_BROKER_SSL_PORT	tcp	mqtt	IPv4	8883
False	dms	HTTP port for the DMS API	SHARED_DMS_HTTP_PORT	tcp	http	IPv4	7080
False	dms	HTTPS port for the DMS API	SHARED_DMS_HTTP_SSL_PORT	tcp	https	IPv4	7043
False	caas	CAAS authentication	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	Tomcat Server Shutdown	False	MT_SHUTDOWN_PORT	http	IPv4	3005	None
tcp	Internal web service access	Customer	SHARED_AMM_INTERNAL_WEBAPP_SSL_PORT	http	IPv4	3043	None
tcp	UI access	Customer	SHARED_AMM_WEBAPP_SSL_PORT	http	IPv4	3010	None
tcp	JMX remote access	False	MT_JMX_REMOTE_PORT	http	IPv4	3060	None
tcp	JMX web access	False	MT_JMX_WEB_CONSOLE_PORT	http	IPv4	3090	None
tcp	Ignite node discovery ports. The range is 49500-49520	False		ssl	IPv4	49500	None
tcp	Ignite communication port.	False		ssl	IPv4	49100	None

outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	dms	DMS SSL port	SHARED_DMS_HTTP_SSL_PORT	tcp	ssl	IPv4	7043
False	dms	DMS server port	SHARED_DMS_HTTP_PORT	tcp	http	IPv4	7080
False	tibco	TIBCO connection	SHARED_TIBCOEMS_SSL_PORT	tcp	http	IPv4	7243
False	tibco	TIBCO failover connection	SHARED_TIBCOEMS_FAILOVER_SSL_PORT	tcp	http	IPv4	7243
False	oracle	Oracle connection	SHARED_AMM_DB_PORT	tcp	oracle	IPv4	1522
False	oracle	Oracle connection for AMM segments	SHARED_AMM_SEGMENT_DB_PORT	tcp	oracle	IPv4	1522
False	reg	REG server connection	SHARED_DNS_PORT	tcp	reg	IPv4	53
False	reg	REG REST queries	SHARED_DNS_REST_PORT	tcp	rest	IPv4	8182
False	caas	CAAS authentication	SHARED_CAAS_SSL_PORT	tcp	http	IPv4	6343
False	syslog	syslog	None	udp	syslog	IPv4	514
False	metrics	metrics	AMM_METRICS_PORT	tcp	http	IPv4	8089
True	ftp	ftp	None	tcp	ftp	IPv4	21
False	smtp	Used to send export data through email.	None	tcp	smtp	IPv4	25
False	scp	Used to send export data	None	tcp	scp	IPv4	22

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False		Ignite node discovery ports. The range is 49500-49520		tcp	ssl	IPv	49500
False		Ignite communication port.		tcp	ssl	IPv4	49100



Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	HTTPS management port	False	NAPROXY_HTTP_SSL_PORT	https	IPv4	9843
tcp	gRPC requests port	False	NAPROXY_GRPCSERVICE_PORTNUMBER	gRPC	IPv4	9880

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	caas	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243



Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	NEC Jolokia access port	False	NEC_JOLOKIA_PORT	https	IPv4	8778
tcp	NEC UI access	False	SHARED_NEC_HTTPS_PORT		IPv4	6943
tcp	Used by Tomcat management commands	False	SHARED_NEC_HTTP_PORT		IPv4	6980
tcp	Used by Tomcat management commands	False	NEC_JMX_RMI_PORT	null	IPv4	6951
tcp	Used by Tomcat management commands	False	NEC_AJP_PORT	null	IPv4	6909
tcp	Used by Tomcat management commands	False	NEC_SHUTDOWN_PORT	null	IPv4	6905

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	Oracle	Oracle listener databases for AMM master, AMM segments, FWU, MPC, NEM, HCM, SensorIQ.	SHARED_AMM_DB_PORT	tcp		IPv4	1522
		Oracle Listener for NEC Databases to communicate	NEC_DB_PORT	tcp		IPv4	1522
False	Tibco	NEC is a JMS client.	SHARED_TIBCOEMS_SSL_PORT	tcp		IPv4	7243

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	reg	Standard DNS server queries port to all applications communicate	SHARED_DNS_PORT	tcp	dns	IPv4	53
False	gateway	Gateway protocol buffer messaging API	SHARED_GATEWAY_PORT	tcp		IPv4	7881
False	caas	TBR authenticates with CAAS before calling AMM Web services	SHARED_CAAS_SSL_PORT	tcp		IPv4	6343

Network Center - CEPES

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	CEPES proxy port	Customer	NMS_ES_SSL_HTTP_PORT	https	IPv4	7643	CAAS
tcp	Elasticsearch transport port	False	NMS_ES_TRANSPORT_PORT		IPv4	7606	None
tcp	HTTP port for Elasticsearch	False	CEPES_ES_HTTP_PORT	http	IPv4	7680	basic auth

outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	caas	Port for CAAS authentication and authorization server	SHARED_CAAS_SSL_PORT	tcp	ssl	IPv4	6343

Network Center - CEPNMS

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Traffic from authenticating applications comes through this port to NC from both, browsers and back office components	Customer	NMS_CEPNMS_SSL_HTTP_PORT	https	IPv4	7543
tcp	JMX accessing port	False	CEPNMS_JMX_WEB_CONSOLE_PORT	http	IPv4	7590

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	cepes proxy	SSL port for ElasticSearch Proxy access for dashboards and Jolokia-JMX monitoring	NMS_ES_SSL_HTTP_PORT	tcp	https	IPv4	7643
False	caas	CAAS authentication	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343
False	gateway	Gateway Protocol buffer messaging API	CEPNMS_NICNAC_GATEWAYS	tcp	protobuf	IPv4	7881
False	reg	Standard DNS server queries	SHARED_DNS_PORT	tcp	https	IPv4	53
False	dms	HTTP port for the DMS API	SHARED_DMS_HTTP_PORT	tcp	http	IPv4	7080

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	dms	HTTPS port for the DMS API	SHARED_DMS_HTTP_SSL_PORT	tcp	https	IPv4	7043
False	tibco	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243
False	cryptkeeper	CryptKeeper port	NICNAC_SECURITY_CRYPT_KEEPER_PORT	tcp	https	IPv4	9443
False	syslog	syslog		udp	syslog	IPv4	514
False	snmp	SNMP port		udp	SNMP	IPv4	161
False	snmp	SNMP port		tcp	SNMP	IPv4	162
False	hsm	HSM port		tcp		IPv4	288



Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	Ignite node discovery ports. The range is 3150-3159	False	ODS_IGNITE_DISCOVERY_PORT	ssl	IPv4	3150	null
tcp	Ignite node to node direct communication ports. The range is 3160-3169	False	ODS_IGNITE_COMM_PORT	ssl	IPv4	3160	null
tcp	Ignite port used to serve various client connections ports. The range is 3170-3179	False	ODS_IGNITE_CONNECTOR_PORT	ssl	IPv4	3170	null
tcp	UI access	Customer	ODS_SSL_HTTP_PORT	https	IPv4	3144	null
tcp	internal webservice access	False	ODS_SSL_WEBSERVICE_PORT	https	IPv4	3145	null

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
Mesh	tmb	Clear-text port. Used by any application that wants to talk in unsecure mode over the RF network		udp	netmgr	IPv6	645
Mesh	tmb	Used by any application that wants to talk in secure mode over the RF network		udp	netmgr	IPv6	648
False	Oracle	Oracle Database Access for to all applications communicate	ODS_DB_PORT	tcp		IPv4	1521
False	gateway	Gateway Protocol buffer messaging API	SHARED_GATEWAY_PORT	tcp		IPv4	7881
False	reg	Standard DNS server queries port to all applications communicate	ODS_REG_SERVER_PORT	tcp	dns	IPv4	53
False	Tibco	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243
False	caas	Traffic from authenticating applications comes through this port to CAAS from both browsers and back office components.	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343

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ODSJMSROUTE

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	Port which accepts incoming requests for odsjmsroute	False	ODSJMSROUTE_HTTP_SSL_PORT	https	IPv4	3147	None

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	Tibco	SSL/TLS port used to communicate with Tibco	ODSJMSROUTE_JMS_CONNECTION_PRIMARYHOST_SSLPORT, ODSJMSROUTE_JMS_CONNECTION_FAILOVERHOST_SSLPORT	tcp	ssl	IPv4	7243
False	caas	Traffic from authenticating applications comes through this port to CAAS from both browsers and back office components.	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343

35 ODSWSROUTE

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	Port which accepts incoming requests for odswsroute (from A10 load balancer in HA deployments)	False	ODSWSROUTE_PORT	https	IPv4	3143	None

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	ods	TCP port on which ODS listens for WS calls from odswsroute	ODS_SSL_WEBSERVICE_PORT	tcp	https	IPv4	3145
False	caas	Traffic from authenticating applications comes through this port to CAAS from both browsers and back office components	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343

35 QRSERVICE

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	Application Inbound SSL Port	False	QRSERVICE_SERVICE_PORT	https	IPv4	5810	

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False		AAM SSL AUTH Port	QRSERVICE_AMM_WS_AUTH_PORT	tcp	https	IPv4	3010



Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	Not open by default. Not for external customers.	False	REG_SERVER_RESTPORT	REST	IPv4	8182	None
udp	Registrar, DNS lookups.	False	REG_SERVER_PORT	dns	IPv6	53	None
tcp	Registrar, DNS lookups	False	REG_SERVER_TCPPOINT	dns	IPv6	53	None
udp	Registrar, DNS lookups	False	REG_SERVER_PORT	dns	IPv4	53	None
tcp	Registrar, DNS lookups	False	REG_SERVER_TCPPOINT	dns	IPv4	53	None
tcp	REG Jolokia port	False	REG_JOLOKIA_PORT		IPv4	8188	None

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	Ignite	Ignite start port.	REG_GRID_START_PORT	tcp		IPv4	8100
False	Ignite	Ignite end port.	REG_GRID_END_PORT	tcp		IPv4	8109
False	dlca	DLCA rest endpoint port	REG_DLCA_RESTLET_PORT	tcp		IPv4	7343

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	HSM	Optional HSM connection port.		tcp		IPv4	288
False	caas	Shared caas SSL port.	SHARED_CAAS_SSL_PORT	tcp		IPv4	6343
False	MQTT	REG is a client of HiveMQ MQTT broker.	SHARED_MQTT_BROKER_SSL_PORT	tcp	mqtt	IPv4	8883

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REGISTRATIONHANDLER

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	HTTPS management port	False	REGISTRATIONHANDLER_HTTP_SSL_PORT	https	IPv4	9643	caas

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	tibcoems	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243
False	dms	HTTP port for the DMS API	SHARED_DMS_HTTP_PORT	tcp	http	IPv4	7080
False	dms	HTTPS port for the DMS API	SHARED_DMS_HTTP_SSL_PORT	tcp	https	IPv4	7043
False	caas	CAAS authentication	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343



Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Access to FSU-SAM UI.	Customer	SAM_SSL_HTTP_PORT		IPv4	8243
tcp	Used by Tomcat management commands.	False	SAM_SHUTDOWN_PORT		IPv4	8205

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	caas	CAAS is used for authentication	SHARED_CAAS_SSL_PORT	tcp	SSL	IPv4	6343
False	HSM	Optional HSM connection port		tcp		IPv4	288
False	Oracle	Oracle port for DB connection	SAM_DB_PORT	tcp		IPv4	1521



Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	GridGain communication ports. The range is 6870-6879	False		ssl	IPv4	6870	None
tcp	SIQ UI port	Customer	SENSORIQ_SSL_HTTP_PORT	https	IPv4	6843	None

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False		Clear-text port. Used by any application that wants to talk in unsecure mode over the RF network		udp	netmgr	IPv6	645
False		Used by any application that wants to talk in secure mode over the RF network		udp	netmgr	IPv6	648
False	Oracle RDBMS	Oracle database access	SENSORIQ_DB_PORT	tcp		IPv4	1521
False	dms	Standard DMS server port	SHARED_DMS_HTTP_PORT	tcp		IPv4	7080
False	gateway	Gateway protocol buffer messaging API	SHARED_GATEWAY_PORT	tcp		IPv4	7881
False	reg	Standard DNS server port	SHARED_REG_PORT	tcp	dns	IPv4	53

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	tibco	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243
False	gridgain	GridGain communication ports. The range is 6870-6879		tcp	ssl	IPv4	6870
False	caas	CAAS authentication port	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343

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SENSORIQWSROUTE

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port	Authentication type
tcp	HTTPS management port	False	SENSORIQWSROUTE_HTTP_SSL_PORT	https	IPv4	5618	None

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	caas	CAAS authentication port	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343

41 SSNAGENTFORWARDER

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Port for Jolokia JMX listener	False	SSNAGENTFORWARDER_JMX_SSL_PORT	ssl	IPv4	5680
tcp	SSNIAgentForwarder monitoring and health check service	False	SSNAGENTFORWARDER_MONITORING_PORT	https	IPv4	5678

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	ssnagent	SSNIAgent health check and file transfer service	SSNAGENTFORWARDER_SSNAGENT_PORT	tcp	https	IPv4	5676
False	caas	CAAS authentication for Jolokia	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343
False	ztp	ZTP device provisioning service	SSNAGENTFORWARDER_PTS_ZTP_PORT	tcp	https	IPv4	7945



Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Port for Jolokia JMX listener	False	SSNAGENT_JMX_SSL_PORT	ssl	IPv4	5677
tcp	SSNIAgent web secure service		SSNAGENT_PORT	https	IPv4	5675
tcp	SSNIAgent health check and file transfer service	False	SSNAGENT_FORWARDER_PORT	https	IPv4	5676

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	transfer agent	Transfer Agent data transfer service	SSNAGENT_TRANSFERAGENT_PORT	tcp	https	IPv4	8511
False	caas	CAAS authentication for Jolokia	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343

43 SSNEFProcessor

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Application Inbound SSL Port	False	SSNEFPROCESSOR_SERVICE_PORT	https	IPv4	5829
tcp	Port for Jolokia JMX listener	False	SSNEFPROCESSOR_JMX_SSL_PORT	ssl	IPv4	5836

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False		SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243
False		DTA Outbound SSL Port	SSNEFPROCESSOR_DTA_SERVICE_PORT	tcp	https	IPv4	5609

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TIBCO-CONF-FILES

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	SSL/TLS port used to accept connections	Customer	SHARED_TIBCOEMS_SSL_PORT	ssl	IPv4	7243
tcp	TIBCO EMS server port used to listen to incoming health check requests	False	TIBCO_EMS_HEALTHCHECK_LISTENER_PORT	http	IPv4	7244

45 TRAPROUTER

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	HTTPS management port	False	TRAPROUTER_HTTP_SSL_PORT	https	IPv4	8779

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	tibco	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243
False	Oracle RDBMS	Port used to connect to AMM database	SHARED_AMM_DB_PORT	tcp		IPv4	1522
False	caas	CAAS authentication	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343

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TMB

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	HTTPS management port	False	TMB_HTTP_SSL_PORT	https	IPv4	4588
udp	TMB listen port	False	TMB_LISTEN_PORT	net_mgr	IPv6	647
udp	TMB dynamic secure listen port.	False	TMB_DYNAMIC_SECURE_LISTEN_PORT	net_mgr	IPv6	4535
udp	TMB millinic secure listen port.	False	TMB_MILLI_SECURE_LISTEN_PORT	milli	IPv6	49150
udp	TMB proxy protocol listen port.	False	TMB_PROXY_LISTEN_PORT	null	IPv6	9999
udp	Responses are rerouted to the secure port as null-role operations for LPO networks.	False	TMB_SECURE_RESPONSE_PORT	null	IPv6	648
udp	Responses are sent back to the originating port, which for insecure traps is 645	False	None	null	IPv6	645

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	caas	CAAS authentication	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343
False	gateway	TMB milli trap dest port, gateway	TMB_MILLI_TRAP_DEST_PORT	udp	net_mgr	IPv4	5647

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	HSM	Optional HSM connection port		tcp		IPv4	288
False	tibco	TMB is a Tibco client	SHARED_TIBCOEMS_SSL_PORT	tcp	SSL	IPv4	7243
False	MQTT	TMB is an MQTT client	SHARED_MQTT_BROKER_SSL_PORT	tcp	SSL	IPv4	8883
False	dlca		TMB_DLCA_RESTLET_PORT	tcp	SSL	IPv6	7343

47 UAAEXPORTER

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Application Inbound SSL Port	False	UAAEXPORTER_SERVICE_PORT	https	IPv4	5819
tcp	Port for Jolokia JMX listener	False	UAAEXPORTER_JMX_SSL_PORT	ssl	IPv4	5824
tcp	port for returning a SOAP wrapped message	False	UAAEXPORTER_SOAP_WRAPPER_SERVICE_PORT	ssl	IPv4	5826

Outbound traffic

Component name	Description	Port property	Protocol	Application protocol	Type	Port	External facing
unlisted	SSL/TLS port used to communicate with Tibco	SHARED_TIBCOEMS_SSL_PORT	tcp	ssl	IPv4	7243	unlisted
unlisted	DTA Outbound SSL Port	UAAEXPORTER_DTA_SERVICE_PORT	tcp	https	IPv4	5609	unlisted

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ZTP

Inbound traffic

Protocol	Description	External facing	Port property	Application protocol	Type	Port
tcp	Traffic from provisioning applications comes through this port to ZTP.	Customer	ZTP_SSL_HTTP_PORT	https	IPv4	7945

Outbound traffic

External facing	Component name	Description	Port property	Protocol	Application protocol	Type	Port
False	caas	Port used to make CAAS authentication requests	SHARED_CAAS_SSL_PORT	tcp	https	IPv4	6343
False	dms	HTTP port for the DMS API	SHARED_DMS_HTTP_PORT	tcp	http	IPv4	7080
False	dms	HTTP SSL port used to query DMS	SHARED_DMS_HTTP_SSL_PORT	tcp	https	IPv4	7043
False	cepnms	Port used to update Network Center	ZTP_NC_PORT	tcp	https	IPv4	7543