

# Partners Portal

Technical architecture document

## Document history

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## 1. Introduction

### Purpose

This document intends to describe the Platform architecture for the Partnership portal.

### Terminology

TERM	DEFINITION
Web Front End (WFE)	SharePoint server whose role is to respond to user's requests
Application server (APP)	SharePoint server whose role is to process heavy loads
AD	Active Directory
AD DS	Active Directory Domain Server
AD FS	Active Directory Federation Service
DMZ	Demilitarized Zone
DNS	Domain Name System
GC	Global Catalogue
LDAP	Light Directory Access Protocol
New Quoter	Quotation module of Partnership Portal
Pivot Service	Service used for user management in Partnership Portal
Web services	WCF Routing service. This routing service acts as gateway to other services like PIVOT, Notification Service, Service layer etc.
EoN	Eyes on network
ADRAC	Active Directory Report Audit Control. This tool is used to scan AD vulnerabilities

## 2. Technology

### Tools / products

- SharePoint 2016 standard edition
- SQL Server 2019, 2022
- Redis 6.2
- Message Queuing (MS MQ)
- AD FS Windows Server 2022
- Active directory & Domain controller (Windows Server 2016)

### Stack overview

- C#
- ASP Net 4.6.2 & 4.8
- WCF

- Web Api

### 3. High level architecture

#### Functional overview

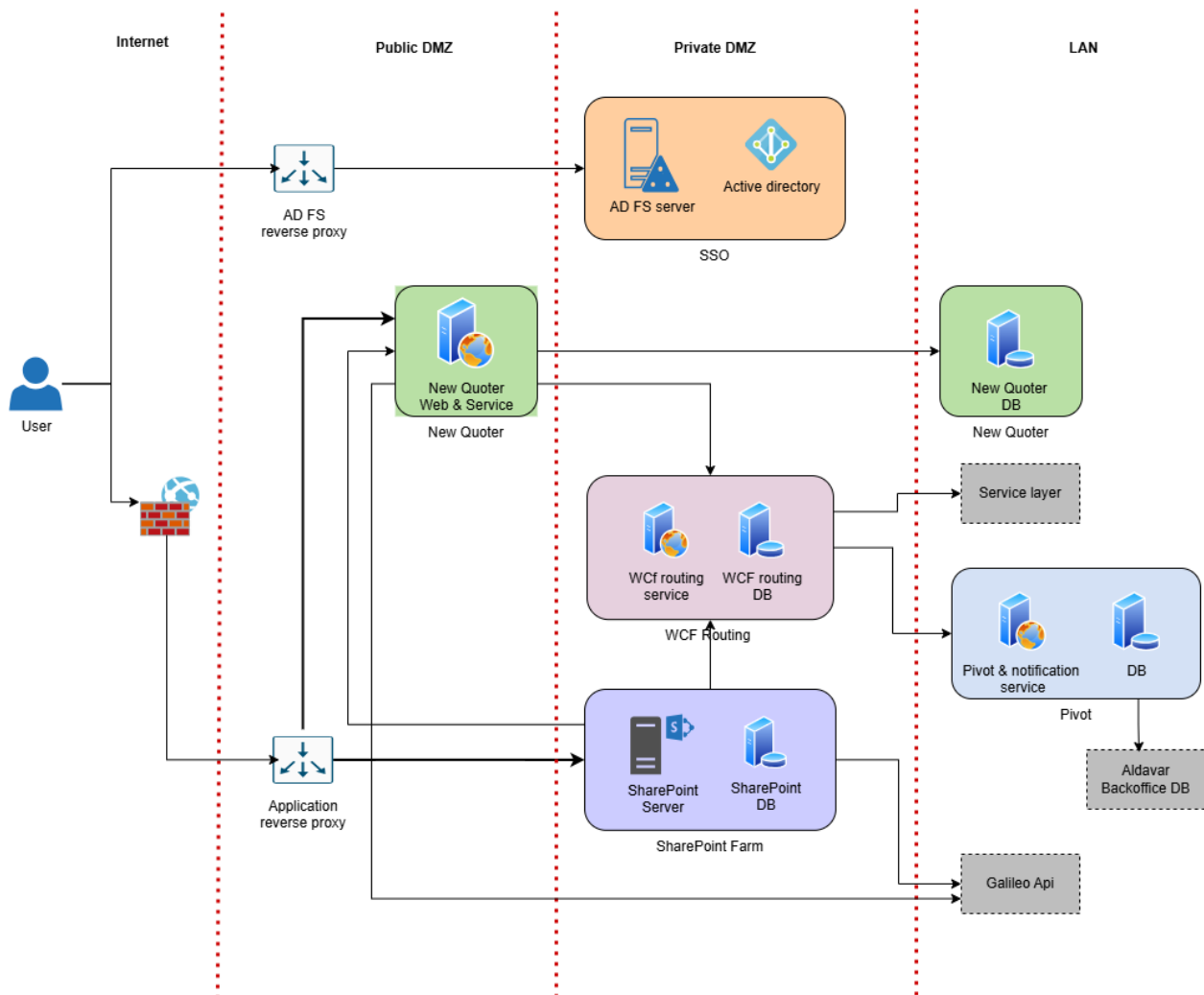
This application is used by ALD white label partnership users to generate, view, and manage quotations. The application contains following modules:

1. User management: This module is used by admins to grant access to white label users.
2. Alert management: Admins can send alert to users using this module. The alerts will be sent as emails.
3. Document management: Users can upload documents and share with other users.
4. My fleet: Users can use this feature to see active contracts and orders.
5. Translation management: Used to manage translations.
6. Quotation module: This module is used to generate, view, and manage quotes.
7. Authentication module:
  - Authentication/Authorization is provided by ADFS using SAML tokens.
  - API authentication is handles by OAuth.

Application user roles:

1. Dealer: Also known as "Salesperson".
  - This user belongs to white label partnership, can login to the application and generate / view and validate quotations.
  - Each dealer user should belong to one Supplier and should have a valid email id set by Supplier company.
  - Their scope is limited to the quotations generated for the supplier.
  - They can request access on behalf of other dealers belong to same supplier.
2. Partner: Also known as "Partner manager".
  - This user also belongs to white label partnership.
  - Partner users can view all the quotations created under the Partnership.
  - They can request access for the dealer users.
3. Admin: Also known as country admin.
  - Administrators are ALD users who manage user access for Partnership portal.
  - They can create / remove / update users.
  - They need to approve all the user creation or profile modification requests sent by partner or Dealer users.
  - In specific cases, they can configure car policies, commission levels and quotation products.
  - Admins can add, delete, or update translations.

The global architecture is described in the following schema:



(HIGH LEVEL ARCHITECTURE DIAGRAM)

## Environment sizing

ROLE	NUMBER OF SERVERS IN PROD	NUMBER OF SERVERS IN UAT	DESCRIPTION
SharePoint WFE	2	2	Host the IIS sites for all SharePoint sites.

SharePoint APP	2	2	Host the central administration and service application management.
SharePoint Database	1	1	One SQL Instance for all SharePoint databases.
Pivot service	1	1	Hosts the service for user and role management.
WCF Routing Database & Cluster	3	3	2 servers for Cluster & always on database servers. One server for cluster file share witness.
WCF Routing service	1	1	Routing server which connects applications with PIVOT service, Service layer and QTI services.
WCF Routing service admin	1	1	Admin website to manage WCF routing rules.
AD Domain controllers	1	1	Active directory server used to store user credentials. Prod domain name: <b>myald.automotive.com</b> Uat domain name: <b>hom.customer.portal</b>
ADRAC tool	1	1	ADRAC tool to monitor and analyze AD security vulnerabilities
AD FS	1	1	Hosts AD FS service which helps with SSO.
AD FS reverse proxy	1	1	Routing server which redirects user login details to AD FS server.
New Quoter	2	2	Hosts new quoter IIS website and Web Api.
New Quoter & Pivot database	1	1	One SQL instance for New Quoter database.
Redis cache	1	1	One server to hold cache
Application routing	1	1	Routing server which redirects user requests to SharePoint or New Quoter servers

### Application description

- Service level: Service availability level is “Low”.
- Criticality: Low.



- SLA: SLA commitment category: “Bronze”.
- GTS services used:
  - Partnership portal has its own domain and active directory.
  - SMTP services are used for messaging.

## Application urls

Sl no	Country	Prod url	Uat url
1	NA – ADFS authentication	https://authenticationportal.com	https://uat.authenticationportal.com
2	Austria	https://at.my-partnership.com	https://at.accept.my-partnership.com
3	Bulgaria	https://bg.my-partnership.com	https://bg.accept.my-partnership.com
4	Brazil	https://br.my-partnership.com	https://br.accept.my-partnership.com
5	Switzerland	https://ch.my-partnership.com	https://ch.accept.my-partnership.com
6	Denmark	https://dk.my-partnership.com	https://dk.accept.my-partnership.com
7	Estonia	https://ee.my-partnership.com	https://ee.accept.my-partnership.com
8	Finland	https://fi.my-partnership.com	https://fi.accept.my-partnership.com
9	Greece	https://gr.my-partnership.com	https://gr.accept.my-partnership.com
10	Croatia	https://hr.my-partnership.com	https://hr.accept.my-partnership.com
11	Hungary	https://hu.my-partnership.com	https://hu.accept.my-partnership.com
12	India	https://in.my-partnership.com	https://in.accept.my-partnership.com
13	Lithuania	https://lt.my-partnership.com	https://lt.accept.my-partnership.com
14	Latvia	https://lv.my-partnership.com	https://lv.accept.my-partnership.com
15	Mexico	https://mx.my-partnership.com	https://mx.accept.my-partnership.com
16	Romania	https://ro.my-partnership.com	https://ro.accept.my-partnership.com
17	Serbia	https://rs.my-partnership.com	https://rs.accept.my-partnership.com
18	Sweden	https://se.my-partnership.com	https://se.accept.my-partnership.com
19	Slovenia	https://si.my-partnership.com	https://si.accept.my-partnership.com

## Database volume and daily flows

Production environment:

Environment	Instance	Server	Used	Free	Total	Backup drive
PRD	PWCFRSQL\IS_WCFR_PRD	PQU02K04 PQU02K06				
PRD	PTNE2K28\IS_TNE_PRD	PTNE2K28				
PRD	PQU02K16\IS_QUO_PRD	PQU02K16				

Homologation environment:

Environment	Instance	Server	Used	Free	Total	Backup drive
HOM	HWCFRSQL\IS_WCFR_UAT	HQU02K06 HQU02K07				
HOM	HTNE2K28\IS_TNE_HOM	HTNE2K28				
HOM	HQU02K16\IS_QUO_HOM	HQU02K16				

- Database volume and backup details



Database Volume  
and backup.xlsx

- Daily flows volume



Daily flow volume.xlsx

- how many users on the application? : More than 4500 registered users.

## Resilience

- Ability to recover from failure: Low
- In case of any failure, application support team will check and provide resolution.
- Partnership Portal does not hold any transactional data related to Quotations. There is no requirement to implement any resilience for transactional data loss.
- All quotation transactions are done by "Service layer" service. And the data resides in Backoffice systems. Both systems are external to Partnership Portal.

## Capacity overview

- Which capacity the platform can sustain: Each Partnership Portal country URL can support up to 2 million users. The number depends on various factors like hardware and network dependencies. Detailed capacity can be found here at SharePoint documentation : <https://docs.microsoft.com/en-us/sharepoint/install/software-boundaries-limits-2019>
- What's the capacity that must be handle in 3 years: We do not foresee any requirement to increase hardware or software capability in next 3 years. However, based on usage, application team will request GTS for additional CPU / RAM / Disc space.

## 4. Detailed specification

### Hardware, OS and Network specifications

The following table details the hardware specifications for all Partnership portal servers.

Prod environment servers:

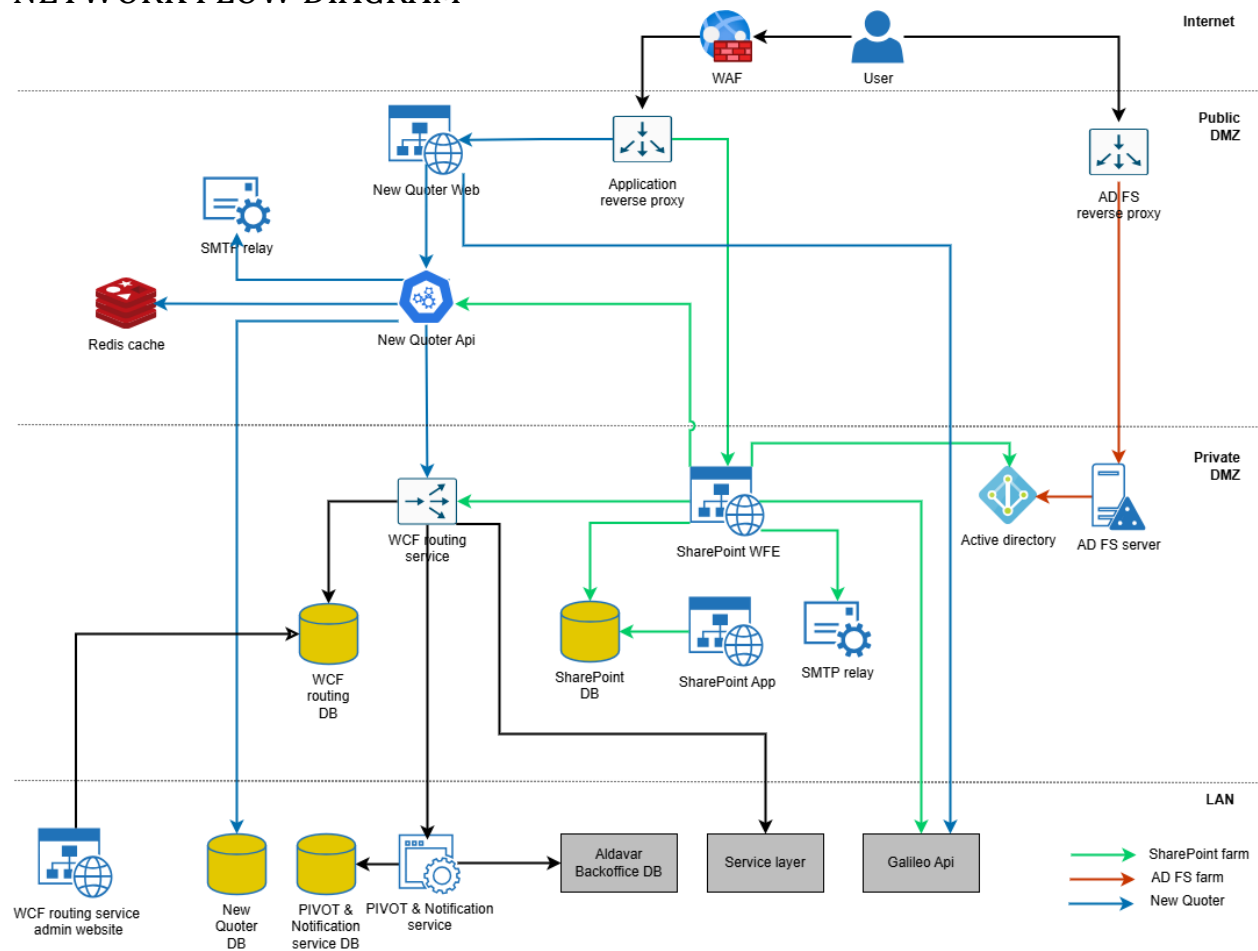
SERVER	IP	NETWORK	ROLE	OS	CPU SPEED	RAM	DISC
PTNE2K25	192.168.11.23	DMZ PRV	SHAREPOINT FRT	WIN 2019	2.40 GHz 4 Cores	16 GB	C - 100 GB; D - 100 GB
PTNE2K26	192.168.11.24	DMZ PRV	SHAREPOINT FRT	WIN 2019	2.40 GHz 4 Cores	16 GB	C - 100 GB; D - 100 GB
PTNE2K23	192.168.11.28	DMZ PRV	SHAREPOINT APP	WIN 2019	2.40 GHz 4 Cores	12 GB	C - 100 GB; D - 80 GB
PTNE2K24	192.168.11.21	DMZ PRV	SHAREPOINT APP	WIN 2019	2.40 GHz 4 Cores	12 GB	C - 100 GB; D - 80 GB
PTNE2K28	192.168.11.27	DMZ PRV	SharePoint DB	WIN 2019	2.90 GHz 4 Cores	16 GB	C - 60 GB; D - 150 GB; E - 70 GB; L - 50 GB; T - 20 GB
PQUO2K05	192.168.11.29	LAN	Pivot Service	WIN 2022	2.40 GHz 4 Cores	8 GB	C - 80 GB; D - 50 GB
PQUO2K04	192.168.11.77	DMZ PRV	WCF routing Database	WIN 2022	2.40 GHz 6 Cores	24 GB	C - 100 GB; D - 50 GB; E - 100 GB; F - 200 GB; S - 100 GB; T - 40 GB
PQUO2K06	192.168.11.39	DMZ PRV	WCF routing Database	WIN 2022	2.40 GHz 6 Cores	24 GB	C - 100 GB; D - 50 GB; E - 100 GB; F - 200 GB; S - 100 GB; T - 40 GB
PQUO2K20	192.168.11.66	DMZ PRV	File share for WCF routing always on database	WIN 2022	2.40 GHz 4 Cores	8 GB	C - 100 GB; D - 50 GB
PTNE2K16	192.168.11.78	DMZ PRV	WCF routing service	WIN 2022	2.40 GHz 4 Core	8 GB	C - 50 GB; D - 5 GB
PTNE2K20	192.168.123.194	LAN	Routing service admin	WIN 2022	2.40 GHz 4 Core	16 GB	C - 50 GB; D - 5 GB
PCPO2K26	192.168.11.72	DMZ PRV	AD	WIN 2016	2.40 GHz 2 Core	8 GB	C - 80 GB; D - 50 GB
PQUO2K29	192.168.11.61	DMZ PRV	ADRAC tool	WIN 2022	2.40 GHz 4 Cores	8 GB	C - 100 GB; D - 50 GB
PTNE2K07	192.168.11.113	DMZ PRV	ADFS	WIN 2022	2.40 GHz 2 Core	8 GB	C - 60 GB; D - 5 GB
PTNE2K22	192.168.110.141	DMZ PUB	REVERSE PROXY FOR ADFS	WIN 2022	2.90 GHz 2 Core	4 GB	C - 60 GB; D - 30 GB
PQUO2K01	192.168.110.115	DMZ PUB	New quoter application	WIN 2022	2.40 GHz 2 Core	4 GB	C - 60 GB; D - 30 GB
PQUO2K03	192.168.110.116	DMZ PUB	New quoter application	WIN 2022	2.40 GHz 2 Core	4 GB	C - 60 GB; D - 20 GB
PQUO2K16	192.168.102.24	LAN	New Quoter & Pivot database server	WIN 2016	2.10 GHz 2 Core	12 GB	C - 80 GB; D - 50 GB; E - 150 GB; F - 150 GB; G - 40 GB; H - 150 GB; I - 150 GB; K - 40 GB; S - 40 GB
PTNELX14	192.168.110.24	DMZ PUB	Redis cache	Red Hat Enterprise Linux Server release 7.6 (Maipo)	2 Core	4 GB	C - 40 GB; D - 50 GB
PQUO2K19	192.168.110.43	DMZ PUB	Application routing	WIN 2022	2.40 GHz 2 Core	8 GB	C - 60 GB; D - 30 GB

## Homologation environment servers

SERVER	IP	NETWORK	ROLE	OS	CPU SPEED	RAM	DISC
HTNE2K26	192.168.11.11	DMZ PRV	SHAREPOINT FRT	WIN 2019	2.40 GHz 4 Core	16 GB	C - 120 GB; D - 100 GB
HTNE2K25	192.168.11.8	DMZ PRV	SHAREPOINT FRT	WIN 2019	2.40 GHz 4 Core	16 GB	C - 90 GB; D - 100 GB
HTNE2K24	192.168.11.7	DMZ PRV	SHAREPOINT APP	WIN 2019	2.40 GHz 4 Core	12 GB	C - 80 GB; D - 80 GB
HTNE2K23	192.168.11.6	DMZ PRV	SHAREPOINT APP	WIN 2019	2.40 GHz 4 Core	16 GB	C - 70 GB; D - 80 GB
HTNE2K28	192.168.11.16	DMZ PRV	SharePoint DB	WIN 2019	2.40 GHz 4 Core	16 GB	C - 60 GB; D - 150 GB; E - 50 GB; L - 50 GB; T - 20 GB
HQUO2K05	192.168.11.37	LAN	Pivot Service	WIN 2022	2.40 GHz 4 Core	8 GB	C - 80 GB; D - 50 GB
HQUO2K06	192.168.11.15	DMZ PRV	WCF routing Database	WIN 2022	2.40 GHz 4 Core	12 GB	C - 100 GB; D - 50 GB; F - 150 GB; G - 100 GB; H - 40 GB
HQUO2K07	192.168.11.12	DMZ PRV	WCF routing Database	WIN 2022	2.40 GHz 4 Core	12 GB	C - 100 GB; D - 50 GB; F - 150 GB; G - 100 GB; H - 40 GB
HQUO2K20	192.168.11.74	DMZ PRV	File share for WCF routing always on database	WIN 2022	2.40 GHz 4 Cores	8 GB	C - 100 GB; D - 50 GB
HTNE2K16	213.41.15.41	DMZ PRV	WCF routing service	WIN 2022	2.40 GHz 4 Core	8 GB	C - 50 GB; D - 80 GB
HTNE2K20	192.168.242.208	LAN	Routing service admin	WIN 2022	2.10 GHz 4 Core	8 GB	C - 50 GB; D - 5 GB
HCPO2k26	192.168.11.32	DMZ PRV	AD	WIN 2016	2.40 GHz 2 Core	8 GB	C - 80 GB; D - 50 GB
HTNE2K01	192.168.11.96	DMZ PRV	ADFS	WIN 2022	2.40 GHz 2 Core	8 GB	C - 60GB; D - 10 GB
HQUO2K29	192.168.11.31	DMZ PRV	ADRAC tool	WIN 2022	2.40 GHz 4 Cores	8 GB	C - 100 GB; D - 50 GB
HTNE2K22	192.168.110.141	DMZ PUB	REVERSE PROXY FOR ADFS	WIN 2022	2.40 GHz 2 Core	4 GB	C - 60 GB; D - 30 GB
HQUO2K03	192.168.110.141	DMZ PUB	New quoter application	WIN 2022	2.40 GHz 2 Core	4 GB	C - 60 GB; D - 20 GB
HQUO2K04	192.168.110.110	DMZ PUB	New quoter application	WIN 2022	2.40 GHz 2 Core	4 GB	C - 60 GB; D - 20 GB
HQUO2K18	192.252.242.3	LAN	New Quoter & Pivot database server	WIN 2022	2.10 GHz 4 Core	16 GB	C - 80 GB; D - 50 GB; E - 90 GB; F - 300 GB; G - 40 GB; H - 100 GB; I - 100 GB; K - 20 GB; M - 50 GB
HTNELX14	192.252.241.61	DMZ PUB	Redis cache	Red Hat Enterprise Linux Server release 7.6 (Maipo)	2 Core	4 GB	C - 40 GB; D - 50 GB
HQUO2k19	192.168.110.31	DMZ PUB	Application routing	WIN 2022	2.40 GHz 2 Core	8 Gb	C - 60 GB; D - 30 GB

## Network flow

## NETWORK FLOW DIAGRAM



(NETWORK FLOW DIAGRAM)

## NETWORK FLOW DESCRIPTION

Here is the list of network flows used in the SharePoint farm.

SOURCE	DESTINATION	PROTOCOL-PORT	USAGE
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Users	Application routing	HTTPS (443)	Reverse proxy / routing
Application reverse proxy	SharePoint Web front end	HTTPS (443)	Reverse proxy / routing
SharePoint Web front end (WFE) and App	SQL	TCP/UDP (14001) TCP/UDP (445)	Access to SQL instance SMB
SharePoint Web front end (WFE)	SharePoint APP	TCP (22233-22236) HTTPS (2016) TCP (32843-32844) TCP/UDP (445)	AppFabric Central administration SharePoint Web Services SMB
SharePoint Web front end (WFE) and App	AD	TCP/UDP (53) TCP/UDP (88) UDP (123) TCP/UDP (135) TCP/UDP (137) UDP (138) TCP (139) TCP/UDP (389) TCP/UDP (445) TCP (636) TCP (3268) TCP (3269) TCP/UDP (464) TCP (5722) ICMP	DNS Kerberos Authentication W32Time NTP UDP RPC endpoint mapper Netbios Datagram NetBIOS name Resolution RPC - netlogon LDAP Directory Services Secure LDAP LDAP for Global Catalog Secure LDAP for Global Catalog Replication, User and Computer Authentication, Trusts File Replication PING
SharePoint Web front end	Pivot & Notification services	HTTPS (443)	WCF Services (through WCF Routing service)
SharePoint Web front end	SMTP	SMTP (25)	Send emails and notifications from the application.
SharePoint Web front end	Galileo service	443	Galileo back-office service
SharePoint Web front end	Miles service	443	Miles web service

Here is the list of network flows used in the ADFS farm.

SOURCE	DESTINATION	PROTOCOL-PORT	USAGE
Users	AD FS Reverse proxy	HTTPS (443)	Reverse proxy / routing for AD FS
AD FS Reverse proxy	AD FS	HTTPS (443)	Reverse proxy / routing for AD FS
AD FS	AD	TCP/UDP 53 TCP 88 TCP 135 TCP 445 TCP/UDP 389 or TCP/UDP 636 TCP 3268 or TCP 3269 TCP Dynamic	DNS Kerberos RPC SMB LDAP or LDAP over SSL GC or GC over SSL RPC

Here is the list of network flows used in the New Quoter.

SOURCE	DESTINATION	PROTOCOL-PORT	USAGE
Users	Application routing	HTTPS (443)	Reverse proxy / routing for AD FS
Application routing	New quoter web	HTTPS (443)	Reverse proxy / routing for AD FS
New quoter api	SQL	TCP/UDP (53458) Note: For Uat the port is 54855	Access to SQL instance
New quoter api	Pivot & Notification services	HTTPS (443)	Web Services (through WCF Routing service)
New quoter api	SMTP	SMTP (25)	Send emails and notifications from the application.
New quoter api	Redis cache	TCP (6379)	Connects to Redis cache with Redis credentials
New quoter api	Galileo service	443	Galileo back-office service
New quoter api	Service layer	443	Service layer back-office service through WCF routing service

Here is the list of network flows used in the WCF web service, Pivot and Notification service.

SOURCE	DESTINATION	PROTOCOL-PORT	USAGE
WCF routing service	PIVOT & Notification service	HTTPS (443)	Access to other services hosted on ALD network
PIVOT & Notification service	PIVOT database	TCP (1433)	Access to SQL instance
WCF routing service	WCF routing database	TCP (1433)	Access to SQL instance
PIVOT Service	ALDAVAR back-office database	TCP (1521)	Connect to Aldavar Oracle database
WCF routing service admin	WCF routing database	TCP (1433)	Access to SQL instance

## NETWORK FLOW HISTORY



Network-Log-detail  
s-GTS-4922.docx

## 5. Access and security

### Administration access

### SHAREPOINT FARM

Farm account (domain account) is required to administrate the SharePoint farm.

ENVIRONMENT	ACCOUNT
HOM	hom\svc_spfarm
PROD	myald\psvcspfarm

Other accounts:

ENVIRONMENT	ACCOUNT
HOM	hom\svc_spservice
HOM	hom\svc_spInternalApp
HOM	hom\svc_spcacheuser



HOM	hom\svc_spcachereader
PROD	myald\psvcspservice
PROD	myald\psvcspInternalApp
PROD	myald\psvcspccacheuser
PROD	myald\psvcspcachereader

## AD FS FARM

The farm administrator account is required to administrate the AD FS farm.

ENVIRONMENT	ACCOUNT
HOM	hom\hadsinstall
PROD	myald\padfsinstall

## NEW QUOTER

ENVIRONMENT	ACCOUNT
HOM	No administration accounts configured in application. Managed by GTS SQL team.
PROD	No administration accounts configured in application. Managed by GTS SQL team.

## SQL SERVERS

ENVIRONMENT	ACCOUNT
HOM	No administration accounts configured in application. Managed by GTS SQL team.
PROD	No administration accounts configured in application. Managed by GTS SQL team.

## Web service access

Web service access requires use of X.509 certificates for encryption and of X.509 certificates for authentication, the required certificates are installed on WFE servers.

The following table lists certificates that are part of the service access:

CERTIFICATE	ROLE	DESCRIPTION
ALD-Partners	Encryption	Issued certificate by application to encrypt the flows between applications and the WCF web services server.  Installed in Certificates store (Local Server\Personal)

SSL-RoutingService	Authentication	Certificate used to authenticate the client machine.  Installed in Certificates store (Local Server\Trusted Root Authorities)
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## User access

1. Users need to have a personal account to access the application. Users are created in Partnership Portal active directory.
2. Partnership Portal has it's own custom domain which is separate from ALD's domain.
3. Domains used in Partnership Portal are: hom.customer.portal for homologation, myald.automotive.com for PRD.
4. The authentication (SSO) is managed by the AD FS farm.

## 6. Software configuration

Production environment:

SERVER	ROLE	SOFTWARE
PTNE2K25	SHAREPOINT FRT	SharePoint Server 2019 Standard Edition
PTNE2K26	SHAREPOINT FRT	SharePoint Server 2019 Standard Edition
PTNE2K23	SHAREPOINT APP	SharePoint Server 2019 Standard Edition
PTNE2K24	SHAREPOINT APP	SharePoint Server 2019 Standard Edition
PTNE2K28	SharePoint DB	SQL Server 2019
PQU02K05	Pivot Service	IIS
PQU02K04	WCF routing Database	SQL Server 2022
PQU02K06	WCF routing Database	SQL Server 2022
PTNE2K16	WCF routing service	MS MQ
PTNE2K20	Routing service admin	IIS
PCPO2K26	AD	Domain controller, active directory
PQU02K20	ADRAC	ADRAC tool
PTNE2K07	ADFS	AD FS (WIN 2022)
PTNE2K22	REVERSE PROXY FOR ADFS	Application Request Routing Module (ARR) URL Rewrite Module
PQU02K01	New quoter application	IIS
PQU02K03	New quoter application	IIS
PQU02K16	New Quoter database server	SQL Server 2019
PTNELX14	Redis cache	Redis server 6.2.2

PQU02K19	Application routing	Application Request Routing Module (ARR) URL Rewrite Module
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Homologation environment:

SERVER	ROLE	SOFTWARE
HTNE2K26	SHAREPOINT FRT	SharePoint Server 2019 Standard Edition
HTNE2K25	SHAREPOINT FRT	SharePoint Server 2019 Standard Edition
HTNE2K24	SHAREPOINT APP	SharePoint Server 2019 Standard Edition
HTNE2K23	SHAREPOINT APP	SharePoint Server 2019 Standard Edition
HTNE2K28	SharePoint DB	SQL Server 2019
HQU02K05	Pivot Service	IIS
HQU02K06	Pivot Database	SQL Server 2022
HQU02K07	Pivot Database	SQL Server 2022
HTNE2K16	WCF routing service	MS MQ
HTNE2K20	Routing service admin	IIS
HCP02k26	AD	Domain controller, active directory
PQU02K20	ADRAC	ADRAC tool
HTNE2K01	ADFS	AD FS (WIN 2022)
HTNE2K10	REVERSE PROXY FOR ADFS	Application Request Routing Module (ARR) URL Rewrite Module
HQU02K03	New quoter application	IIS
HQU02K04	New quoter application	IIS
HQU02K16	New Quoter database server	SQL Server 2019
HTNELX14	Redis cache	Redis server 6.2.2
HQU02k19	Application routing	Application Request Routing Module (ARR) URL Rewrite Module

## 7. Security

### SharePoint Farm

Production environment:

ACCOUNT	ROLE	DESCRIPTION	PERMISSIONS
---------	------	-------------	-------------

psvcspfarm	Farm service account	This account executes the following services: SharePoint 2016 Timer Central administration application pool	Domain user.  Roles needed for the SQL Server Instance connection: securityadmin dbcreator
psvcspinternalapp	Application pool account	Application pool execution account of the web applications	Domain user

Homologation environment:

ACCOUNT	ROLE	DESCRIPTION	PERMISSIONS
svc_spfarm	Farm service account	This account executes the following services: SharePoint 2016 Timer Central administration application pool	Domain user.  Roles needed for the SQL Server Instance connection: securityadmin dbcreator
svc_spinternalapp	Application pool account	Application pool execution account of the web applications	Domain user

## AD FS Farm

Production environment:

ACCOUNT	ROLE	DESCRIPTION	PERMISSIONS
psvcadfs	AD FS service account	Domain account with no specific rights for ADFS Server farm.	This account must have Full control to the private key of the certificate.
padfsadmin	Application pool account	Local account used to communicate the AD FS servers.	Local administrator on AD FS Server.

Homologation environment:

ACCOUNT	ROLE	DESCRIPTION	PERMISSIONS
hsvcadfs	AD FS service account	Domain account with no specific rights for ADFS Server farm.	This account must have Full control to the private key of the certificate.

hadsadmin	Application pool account	Local account used to communicate the AD FS servers.	Local administrator on AD FS Server.
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## New Quoter

Production and Homologation environment:

ACCOUNT	ROLE	DESCRIPTION	PERMISSIONS
.\Quoter	Application pool account  Azure pipeline account for deployment	Local account used as app pool because the database is in LAN and application servers are in DMZ. This local account has been mirrored in LAN servers to allow database communication	Account has admin access to run Azure pipeline and deploy database projects.

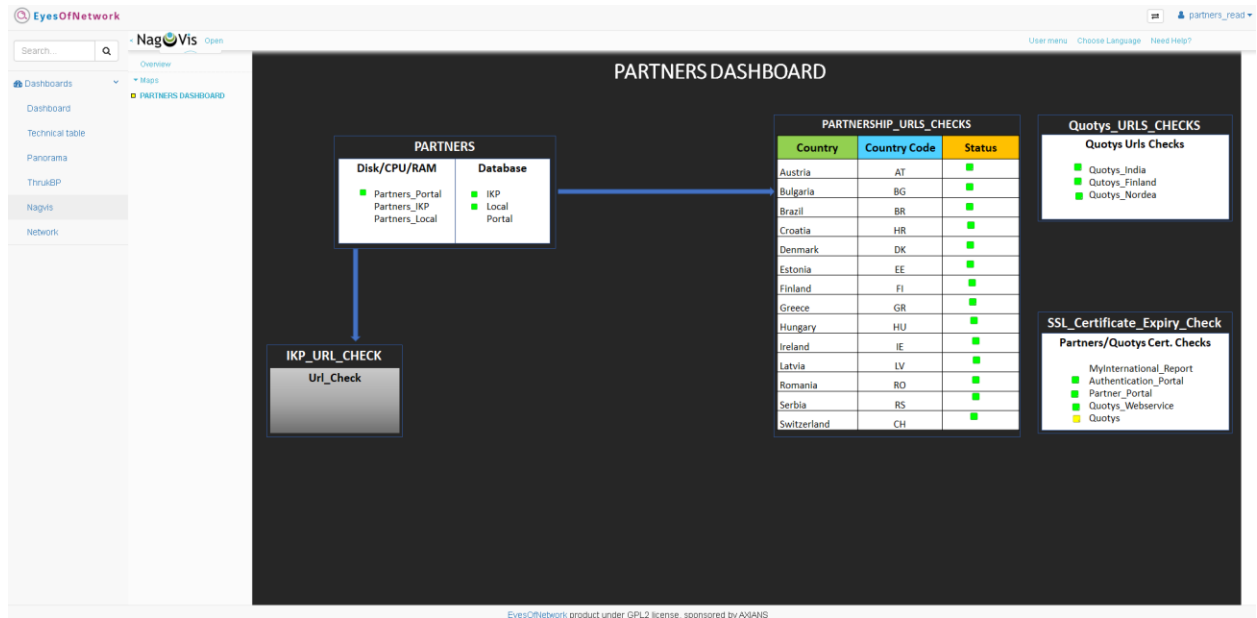
## Others

ACCOUNT	ROLE	DESCRIPTION	PERMISSIONS
AUTOMOTIVE\PSQVCQUOAPP  AUTOMOTIVE\HSQVCQUOAPP	Service account	service account used in PIVOT & Notification service	Access to ALD_PIVOT & Notificationservice database DB reader and writer, have execute permission
MYALD\PSQVCQUOAPP  HOM\HSQVCQUOAPP	Service account	service account used in WCF routing service	Access to ALDRouter DB reader and writer, have execute permission

## 8. Monitoring

### Specific service monitoring

1. EoN Tool: Partnership portal URLs are monitored by EoN for availability and load time. EoN runs every 15 minutes. In case of any issue or unavailability, the tool will send email alerts to Partnership Portal support team. The tool also has a dashboard to check application status.



(EON DASHBOARD)

2. Batch job (WCF Routing service): Batch is running on WCF Routing server to check stratus of the routing service. In case of any failure, it will start the service again. This check runs every 5 minutes on the server.
3. Batch job (Notification service): This job is running on PIVOT server. It will monitor and start the notification service in case of any failure. This check runs every 5 minutes on the server.

## 9. Backup

### Server backup

Homologation environment: No backups taken for homologation environment.

Production environment:

SERVER	ROLE	OS Version
PTNE2K25	SHAREPOINT FRT	Veeam backup - daily
PTNE2K26	SHAREPOINT FRT	Veeam backup - daily
PTNE2K23	SHAREPOINT APP	Veeam backup - daily
PTNE2K24	SHAREPOINT APP	Veeam backup - daily
PTNE2K28	SharePoint DB	Veeam backup - daily
PQU02K05	Pivot Service	Veeam backup - daily
PQU02K04	WCF routing Database	No backup taken for VM. Database backup is configured.

PQU02K06	WCF routing Database	No backup taken for VM. Database backup is configured.
PTNE2K16	WCF routing service	Veeam backup - daily
PTNE2K20	Routing service admin	Veeam backup - daily
PCPO2K26	AD	Veeam backup - daily
PTNE2K07	ADFS	Veeam backup - daily
PTNE2K22	REVERSE PROXY FOR ADFS	Veeam backup - daily
PQU02K01	New quoter application	Veeam backup - daily
PQU02K03	New quoter application	Veeam backup - daily
PQU02K16	New Quoter database server	Veeam backup - daily
PTNELX14	Redis cache	Veeam backup - daily
PQU02K19	Application routing	Veeam backup - daily

## Database backup

Production environment:

Instance	Server	System DB Full backup	Full backup	Differential backup	Log backup
PWCFRSQL\IS_WCFR_P RD	PQU02K04/ PQU02K06	Every day at 10:30:00 PM.	Every day at 10:00:00 PM.	No	Each day every 2 hour(s) between 12:00:00 AM and 11:59:59 PM.
PTNE2K28\IS_TNE_PRD	PTNE2K28	Every day at 10:00:00 PM.	Every day at 10:15:00 PM.	No	No
PQU02K16\IS_QUO_PRD	PQU02K16	Every day at 10:00:00 PM.	Every day at 10:15:00 PM.	No	No

Homologation environment

Instance	Server	System DB Full backup	Full Backup	Differential backup	Log BackUp
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HWCFRSQL\IS_WCFR_UAT	PQU02K06/ PQU02K07	No	No	No	No
HTNE2K28\IS_TNE_HOM	HTNE2K28	Every day at 10:00:00 PM.	Every day at 10:15:00 PM.	No	No
HQU02K16\IS_QUO_HOM	HQU02K16	Every day at 10:00:00 PM.	Every day at 10:15:00 PM.	No	No

## 10. DRP

Partnership portal is not part of DRP.

However, WCF routing service and “Authentication portal” are part of DRP.

1. The “Authentication portal” (AD-ADFS) system is shared with MyAyvens. Since MyAyvens application is part of DRP, this part of the application also included in DRP.
2. Due to MyAyvens dependency with Service layer & Aldavar batch invoker, WCF routing service is also part of DRP.
3. WCF routing service acts like a gateway for multiple applications like Service Layer, BO API, Aldavar batch invoker.