

Server and Workstation Hardware Requirements

DISPATCH 6.8.0

DISPATCH Underground 1.12.1

MineCare 2.8.0

ProVision 3.8.0



Revision E | May 2024



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Introduction

This guide provides the server and workstation hardware and operating system (OS) requirements for DISPATCH 6.8.0 (Integrated and Standalone), DISPATCH Underground 1.12.1, MineCare 2.8.0, and ProVision 3.8.0 (Integrated and Standalone).

The following table shows the servers that are required for each application.

Product	Servers / Workstations Required				
	SQL (Database)	OMS	Application	IntelliMine	Workstation
DISPATCH Standalone 6.8.0	X	X	X	X	X
DISPATCH Integrated 6.8.0	X	X	X	X	X
DISPATCH Underground 1.12.1	X			X	X
ProVision Standalone 3.8.0	X			X	X
ProVision Integrated 3.8.0	X	X		X	X
MineCare 2.8.0	X	X	X	X	X

Each server should be installed on a separate machine.

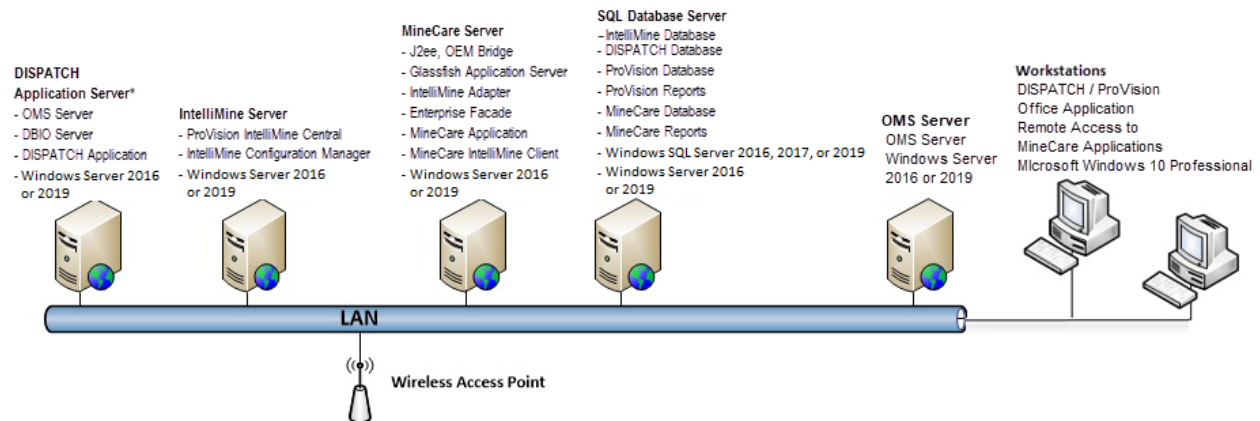


Figure 1: Server Configuration for DISPATCH 6.8.0 Integrated with ProVision 3.8.0 and MineCare 2.8.0

SQL Server

Modular Mining applications store data in an SQL database running on a dedicated machine. The database server can be provided by Modular Mining or the customer.

- **Applies to:** DISPATCH 6.8.0 (Standalone or Integrated), DISPATCH Underground 1.12.1, MineCare 2.8.0, ProVision 3.8.0 (Standalone or Integrated)
- **SQL Server versions:** 2016, 2017, 2019 (DISPATCH Underground 1.12.1 is supported on 2016, 2017 only)
- **OS:** Microsoft Windows Server 2016, 2019 (DISPATCH Underground 1.12.1 is supported on 2016 only)

The requirements differ by application. See the following:

- SQL Server Hardware Requirements for Mines Running DISPATCH 6.8.0 Standalone or DISPATCH 6.8.0 Integrated with MineCare 2.8.0 on page 6.
- SQL Server Requirements for Mines Running DISPATCH Underground 1.12.1, ProVision 3.8.0 Standalone, or DISPATCH 6.8.0 Integrated with ProVision 3.8.0 on page 7.

SQL Server Hardware Requirements for Mines Running DISPATCH 6.8.0 Standalone or DISPATCH 6.8.0 Integrated with MineCare 2.8.0

The following hardware requirements apply to DISPATCH 6.8.0 Standalone and DISPATCH 6.8.0 integrated with MineCare 2.8.0, regardless of the number of equipment units.

Item		Requirement	Recommended
CPU	Number of cores	4	8 for extensive reporting
	Minimum frequency	2.5	2.8 or higher
Memory	Total RAM (GB)	16	24 or higher
Free disk space (GB) for	Operating system (OS)	100	200
	Data*†	500	1,000 (1TB)
	Log*†	125	125 or higher
	Temporary files*	100	100
Ethernet	Number of Ethernet connections	1	1
	Connection speed (Gbps)	1	10

* Data, Log, and Temporary files must reside on a separate LUN capable of 5000 IOPS (input/output operations per second).

† The DISPATCH Standalone and DISPATCH Integrated databases require at least 40% additional disc space when change data capture (CDC) is enabled, depending on the number of tables and the retention period. We recommend that you continuously monitor disc space usage when CDC is enabled.

SQL Server Requirements for Mines Running DISPATCH Underground 1.12.1, ProVision 3.8.0 Standalone, or DISPATCH 6.8.0 Integrated with ProVision 3.8.0

For mines that are running DISPATCH Underground 1.12.1, ProVision 3.8.0 Standalone, or DISPATCH 6.8.0 integrated with ProVision 3.8.0, the hardware requirements for SQL Server depend on the number of equipment units in operation.

Mines that are operating 70 or more ProVision or DISPATCH Underground equipment units will require additional CPU cores and RAM to efficiently process communications between the application or IntelliMine Server and the mobile applications. Without these additional resources, customers will experience excessive wait times and further communication delays during shift changes. ProVision supports a maximum of 200 ProVision equipment units. DISPATCH Underground supports a maximum of 200 equipment units with mobile field computers.

In addition to increasing the CPU and total RAM in ProVision and DISPATCH integrated installations you must install the SQL database for DISPATCH on a separate drive.

Item		Requirement		Recommended
		< 70 Units	≥ 70 Units	
CPU	Number of cores	4	8	8 for extensive reporting for mines with less than 70 units
	Minimum frequency	2.5	2.5	2.8 or higher
Memory	Total RAM (GB)	16	64	24 or higher for mines with less than 70 units
Free disk space (GB) for	Operating system (OS)	100	100	200
	Data*†	500	500	1,000 (1TB)
	Log*†	125	125	125 or higher
	Temporary files*	100	100	100
Ethernet	Number of Ethernet connections	1	1	1
	Connection speed (Gbps)	1	1	10

* Data, Log, and Temporary files must reside on a separate LUN capable of 5000 IOPS (input/output operations per second).

† The DISPATCH Standalone and DISPATCH Integrated databases require at least 40% additional disc space when CDC is enabled, depending on the number of tables and the retention period. We recommend that you continuously monitor disc space usage when CDC is enabled.

OMS Server

- **Applies to:** DISPATCH 6.8.0 (Standalone or Integrated), MineCare 2.8.0, ProVision 3.8.0 Integrated
- **OS:** Microsoft Windows Server 2016, 2019

Item		Requirement	Recommended
CPU	Number of cores	2	4 or higher
	Minimum frequency (GHz)	2.5	2.5 or higher
Memory	Total RAM (GB)	8	8 or higher
Disks	System disk size (GB)	200	200
Ethernet	Number of Ethernet	1	1
	Connection speed (Gbps)	1	10

Application (Central) Server

- **Applies to:** DISPATCH 6.8.0 (Standalone or Integrated), MineCare 2.8.0¹
- **OS:** Microsoft Windows Server 2016, 2019

Item		Requirement	Recommended
CPU	Number of cores	4	8 or more for extensive reporting
	Minimum frequency (GHz)	2.5	2.8 or higher
Memory (DISPATCH 6.8.0)	Total RAM (GB)	8	16 or higher
Memory (MineCare 2.8.0)	Total RAM (GB)	16	24
Memory (MineCare 2.8.0 with Analytics Solution)	Total RAM (GB)	20	24
Free disk space for	Installation (GB)	100	100 or higher
Ethernet	Number of Ethernet connections	1	1
	Connection speed (Gbps)	1	10

¹ ProVision (Standalone and Integrated) and DISPATCH Underground do not require an Application server. They use the IntelliMine server instead.

IntelliMine Server

- **Applies to:** DISPATCH 6.8.0 Integrated, DISPATCH Underground 1.12.1, MineCare 2.8.0, ProVision 3.8.0 (Standalone or Integrated)
- **Operating System (OS):** Microsoft Windows Server 2016, 2019

Item		Requirement	Recommended
CPU	Number of cores	4	8 or more
	Minimum frequency (GHz)	2.5	2.6 or higher
Memory	Total RAM (GB)	8	16 or higher
Free disk space for	Installation (GB)	100	100
Ethernet	Number of Ethernet connections	1	1
	Connection speed (Gbps)	1	10

Office Workstations

- **Operating system (OS):** Microsoft Windows 10 Professional.
DISPATCH 6.8.0 Update 3 and higher and MineCare 2.8.0 Update 1 and higher support Microsoft Windows 11 Professional in addition to Windows 10 Professional.

DISPATCH 6.8.0, DISPATCH Underground 1.12.1, and ProVision 3.8.0

Item		Requirement	Recommended
CPU	Number of cores	2	4
	Minimum frequency (GHz)	2.6	3.0
Memory	Total RAM (GB)	8	16
Disks	Number of disks	1	1
	System disk size (GB)	200	200
	Free space on install drive (GB)	10	50
Ethernet	Number of Ethernet connections	1	1
	Connection speed (Gbps)	1	1
	Display Adapter (GB)	0.5	1+

MineCare 2.8.0

Item		Requirement	Recommended
CPU	Number of cores	2	4
	Minimum frequency (GHz)	2.6	3.0
Memory	Total RAM (GB)	8	12
Disks	Number of disks	1	1
	System disk size (GB)	100	200
	Free space on install drive (GB)	10	50
Ethernet	Number of Ethernet connections	1	1
	Connection speed (Gbps)	1	1

Firewall Configuration

Create inbound and outbound rules for the specified TCP and UDP ports.

- Quick Reference on page 13.
- DISPATCH Ports on page 14.
- MineCare Ports on page 18.
- ProVision Ports on page 22.

Quick Reference

Machine/Application	Protocol	Inbound	Outbound
SQL Server (DISPATCH + ProVision)	ICMPv4	All Ports	
	TCP	135, 1433, 1434, 8080, 5030-5050, 50999	1433, 1434
	UDP	137, 5355	
DISPATCH App Server	ICMPv4	All Ports	
	TCP	8003, 9196-9197, 9239, 9998, 9999, 10200, 10300, 11107, 11141, 11201-11203, 13000	3005, 8003, 9195-9197, 9239, 9999, 10200, 10300, 11107, 11141, 11201
OMS	ICMPv4	All ports	
	TCP	3005, 9998	
	UDP	1024-1033, 3000-3001	1024-1033
Broadcast Broker	TCP	3005, 8081, 10000	3005, 8081, 10000
	UDP	1025, 1026, 3000, 3001, 6701, 8081, 9000, 9001, 51000, 51002, 65522	1025, 1026, 3000, 3001, 6701, 8081, 9000, 9001, 51000, 51002, 65522
MineCare 2 Server	TCP	80, 8037, 8076, 8176, 8080, 443 (HTTPS), 8100, 8201, 8203, 50201	3005, 5672, 8101, 8088, 8089, 8200, 8202, 8300
	UDP		123
MineCare 2 Client	TCP	8076, 8176	80, 8037, 8080, 443, 8300
	UDP	123	
IntelliMine + ProVision App Server	ICMPv4	All ports	
	TCP	20-23, 80, 135, 987, 1501, 2233, 5030-5050, 5900, 8201, 9002, 9007, 9008, 9195, 9239, 9998, 9999, 10040, 10101, 10200, 10300, 10400, 10401, 10500, 10501, 10502, 10503, 10540, 10600, 10701, 10900, 11101, 11102, 11111, 11112, 11120, 11121, 11122, 11125, 11126, 11131, 11132, 11141, 11142, 11151, 11155, 11161, 11162, 11163, 11164, 11171, 11172, 11176, 11181, 11182, 11183, 11184, 11190, 11191, 11192, 11201, 11202, 11211, 11212, 11221, 11222, 11232, 11234, 11235, 11241, 11251, 11252, 11261, 11262, 11271, 11280, 11281, 11320, 11580, 11992, 11993, 12190, 18192, 19192, 20000, 20001, 50040, 50200, 50300, 50400, 50401, 50450, 50451, 50500, 50501, 50502, 50503, 50700, 50900, 50999, 51105-51113, 51116, 51117, 51120, 51121, 51251, 51252, 51261, 51262, 51271, 51280, 51281, 51290, 51291	20-23, 135, 987, 2233, 5030-5050, 5900, 8200, 9003, 10502, 10503, 11162, 11163
	UDP	123, 1501, 9000, 9001, 9004, 9005, 9006, 10002, 20600, 50101, 51000	123, 9000, 9001, 9004, 9005, 9006, 20600, 51002

DISPATCH Ports

Service Name	Protocol TCP/UDP	Inbound Outbound	Port Number	Source	Endpoint
<i>Machine: APP Server</i>					
Forms Server	TCP	Inbound Outbound	8003	Client/DISPATCH Adapter	App Server/Client
Dbmsd	TCP	Outbound	9195	App Server	MineCare/IntelliMine
DBIO	TCP	Inbound Outbound	9196-9197	APP Server/Client	Client/App Server
MessageBroker	TCP	Inbound Outbound	9239	APP Server/Client	Client/App Server
DispatchRestarter	TCP	Inbound	9998	App Server	App Server
DiscoveryService	TCP	Inbound Outbound	9999	Client/App Server	App Server/Client
ApplicationConfiguration	TCP	Inbound Outbound	10200	Cient/App Server	App Server/Client
UserManagement	TCP	Inbound Outbound	10300	Client/App Server	App Server/Client
Dbio.DbAccess	TCP	Inbound Outbound	11107	Client/App Server	App Server/Client

Service Name	Protocol TCP/UDP	Inbound Outbound	Port Number	Source	Endpoint
PositionTracking	TCP	Inbound Outbound	11141	Client	App Server
DispatchConfiguration	TCP	Inbound Outbound	11201	Client/App Server	App Server/Client
GeotaggedEvents	TCP	Inbound	11202	Client	App Server
Application Sessions	TCP	Inbound	11203	Client	App Server
Dbio.WebApiService	TCP	Inbound	13000	Client	App Server
FcpAdapter	TCP	Outbound	3005	App Server	OMS Server
Machine: OMS Server					
OMS services/command (OMSns, OMSrouter, OMSnfs, OMSServer, Spooler, OMStip)	UDP	Inbound Outbound	1024-1033	OMS Server	OMS Server/Mobile
OMS unicast	UDP	Inbound	3001	Mobile /OMS Server	OMS Server
OMS broadcast	UDP	Inbound	3000	Mobile /OMS Server	OMS Server
FCP Server	TCP	Inbound	3005	FCP clients (IntelliMine, DISPATCH Server/Clients)	OMS Server
DispatchRestarter	TCIP	Inbound	9998	App Server	OMS Server

Service Name	Protocol TCP/UDP	Inbound Outbound	Port Number	Source	Endpoint
<i>Machine: SQL Server</i>					
SQL Server	TCP	Inbound Outbound	1433	DISPATCH, OMS, IntelliMine	SQL Server
SQL Server - Multiple instances	TCP	Inbound Outbound	1434	DISPATCH, OMS, IntelliMine	SQL Server
Reports	TCP	Inbound	8080	SQL Server	SQL Server
TaskManagement	TCP	Inbound	50999	Client	SQL Server
NetworkDiscovery	UDP	Inbound	137	NETBIOS	Windows Server
<i>Machine: IntelliMine Server</i>					
Instrumentation	TCP	Inbound	20000	Server/Client	Mobile
Intellimine.DiscoveryService	TCP	Inbound	50999	DISPATCH Adapter	Dispatch Adapter
Data Synchronizer Discovery	UDP	Inbound	51000	Mobile	DISPATCH Adapter
Data Synchronizer Discovery	UDP	Outbound	51002	DISPATCH Adapter	Mobile
EmbeddedAdministration	TCP	Inbound	9998	Mobile	DISPATCH Adapter
Time Synchronization	UDP	Outbound	123	DISPATCH Adapter	WindowsTimeServer
FieldCommunication	UDP	Inbound	9000, 9001, 9004-9006	Mobile	DISPATCH Adapter

Service Name	Protocol TCP/UDP	Inbound Outbound	Port Number	Source	Endpoint
FieldCommunication	UDP	Outbound	9001, 9001, 9004-9006	DISPATCH Adapter	Mobile
FieldCommunication	TCP	Inbound	9002	Mobile	DISPATCH Adapter
FieldCommunication	TCP	Outbound	9003	DISPATCH Adapter	Mobile
FieldCommunication	UDP	Inbound	10002	Mobile	DISPATCH Adapter
CentralCommunication Note: These ports only need to be opened if there is a firewall between the Central server and the network that will have the Client Office applications running.	TCP	Inbound	50040, 50101, 50200, 50300, 50400, 50401, 50450, 50451, 50500, 50501, 50502, 50503, 50700, 50900, 50999, 51105-51113, 51116, 51117, 51120, 51121, 51251, 51252, 51261, 51262, 51271, 51280, 51281, 51290, 51291	DISPATCH Adapter	DISPATCH Adapter
DBMSD Adapter	TCP	Inbound	1501	DISPATCH	DISPATCH Adapter
DBMSD Adapter	UDP	Inbound	1501	DISPATCH	DISPATCH Adapter
Mobile Sync	TCP	Inbound	80	Mobile	DISPATCH Adapter

MineCare Ports

Service Name	Protocol TCP/UDP	Inbound Outbound	Port Number	Source	Endpoint
MineCare Central Server VM					
Port used by the OEM Bridge. If the port is in use by another application, the OEM Bridge will automatically increment the port number by one and attempt to use the port. The port number can be incremented up to 9 times, which means that valid port numbers for the OEM Bridge are 50201 through 50210.	TCP	Inbound	50201	OemBridge	RMI
Web port used by IIS. Currently hosting SQL Server Reporting Services.	TCP	Inbound	80	IIS	Reporting applications
Used to synchronize time with existing client time server. Primary function is to keep client and servers time synchronized.	UDP	Outbound	123	Time server	Windows time server clients
IIOP communication between client applications and server(s).	TCP	Inbound	8037	CORBA server	Client applications

Service Name	Protocol TCP/UDP	Inbound Outbound	Port Number	Source	Endpoint
OMS server port.	TCP	Outbound	3005	OEM Bridge	OMS server
Default JMS port.	TCP	Inbound	8076	JMS	DBMSD adapter, Client applications
Secondary JMS port.	TCP	Inbound	8176	JMS	DBMSD adapter, Client applications
Web port used by MineCare to communicate to the application server when not using secure HTTPS. Primary function is access to the MineCare web pages and configuration data.	TCP	Inbound	8080	Payara	Web Client Web applications
Web port used by MineCare to communicate to the application server when using secure HTTPS. Primary function is access to the MineCare web pages and configuration data.	TCP	Inbound	443	Payara	Web Client Web applications
MineCare Enterprise Façade	TCP	Inbound	8100	Enterprise Façade	External client applications
MineCare Enterprise Façade	TCP	Outbound	8101	External client applications	Enterprise Façade callback

Service Name	Protocol TCP/UDP	Inbound Outbound	Port Number	Source	Endpoint
IntelliMine Enterprise Façade equipment configuration service port	TCP	Outbound	8200	IntelliMine Equipment configuration	Equipment configuration
IntelliMine Enterprise Façade equipment configuration callback service port	TCP	Inbound	8201	Equipment configuration callback	Equipment configuration
IntelliMine Enterprise Facade position tracking service port	TCP	Outbound	8202	IntelliMine Position tracking	Position Tracking
IntelliMine Enterprise Facade position tracking callback service port	TCP	Inbound	8203	Position Tracking callback	IntelliMine Position tracking
DISPATCH Enterprise Façade	TCP	Outbound	8300	Time Tracking Dispatch Enterprise façade	Time Tracking
Used to send data from the OMSbridge to the Field Gateway, if MineCare is integrated with Analytics Solutions.	TCP	Outbound	5672	Field Gateway	OEM Bridge
MineCare Client VM					
Web port used by IIS. Currently hosting SQL Server Reporting Services.	TCP	Outbound	80	IIS	Reporting applications

Service Name	Protocol TCP/UDP	Inbound Outbound	Port Number	Source	Endpoint
Used to synchronize time with existing client time server. Primary function is to keep client and servers time synchronized.	UDP	Inbound	123	Windows time server clients	Time Server
IIOP communication between client applications and server(s).	TCP	Outbound	8037	CORBA server	Client applications
Default JMS port.	TCP	Inbound	8076	JMS server	Client applications
Secondary JMS port.	TCP	Inbound	8176	JMS server	Client applications
Web port used by MineCare to communicate to the application server when not using secure HTTPS. Primary function is access to the MineCare web pages and configuration data.	TCP	Outbound	8080	Payara	Web Client Web applications
Web port used by MineCare to communicate to the application server when using secure HTTPS. Primary function is access to the MineCare web pages and configuration data.	TCP	Outbound	443	Payara	Web Client Web applications
DISPATCH Enterprise Façade	TCP	Outbound	8300	Time Tracking Dispatch Enterprise façade	Time Tracking

ProVision Ports

The following TDP and UDP ports must be opened or allowed as exceptions in any third-party firewall software for a DISPATCH system integrated with ProVision and MineCare. Depending on the site, you may need to coordinate the firewall configuration with the mine IT department.

Service Name	Protocol TCP/UDP	Inbound Outbound	Port Number	Source	Endpoint
Load Spot Message to MineAlert Trucks Shovels and trucks should be on the same subnet. If this is not possible, open this port to allow communication.	UDP		20600		
Domain Modules/ Central Communication	TCP	Inbound	9007, 9008, 10040, 10101, 10200, 10300, 10400, 10401, 10500, 10501, 10502, 10503, 10540, 10600, 10701, 10900, 11101, 11102, 11111, 11112, 11120, 11121, 11122, 11125, 11126, 11131, 11132, 11141, 11142, 11151, 11155, 11161, 11162, 11163, 11164, 11171, 11172, 11176, 11181, 11182, 11183, 11184, 11190, 11191, 11192, 11201, 11202, 11211, 11212, 11221, 11222, 11232, 11234, 11235, 11241, 11251, 11252, 11261, 11262, 11271, 11280, 11281, 11320, 11580, 11992,		
Domain Modules	TCP	Inbound	11993, 12190, 18192, 19192		

Service Name	Protocol TCP/UDP	Inbound Outbound	Port Number	Source	Endpoint
ProVision Web API Port used by external applications (such as MineAlert) to obtain ProVision data.	TCP		2233		
MineAlert Web API Port used by ProVision to obtain external data from MineAlert.	TCP		20500		
ssh	TCP		22		
ftp	TCP		20, 21		
cerdisp	TCP		987		
telnet	TCP		23		
MSDTC	TCP		135, 5030-5050		
MineView to PTX Linux (VNC), Central -> Mobile, destination port 5900			5900		

Communication Protocol Diagrams

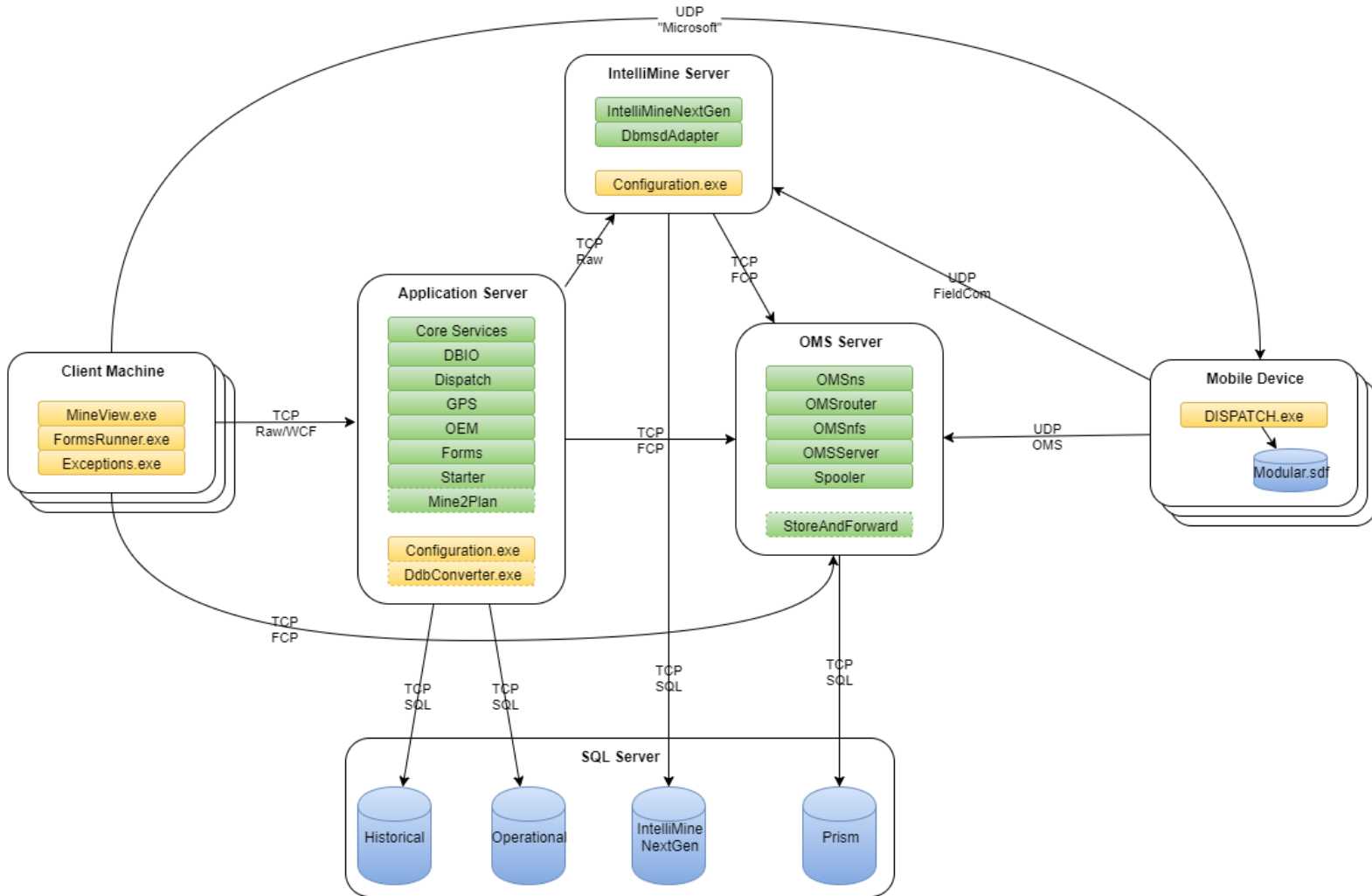
Note: The communication protocols that Modular implements (for example, OMS, FCP, FieldCommunication) are not secured. Raw TCP and UDP are not secured.

- DISPATCH 6 with Linux on page 25
- DISPATCH 6 with Win CE on page [Error! Bookmark not defined.](#)
- ProVision 3 on page 26.
- MineCare 2 on page 27.

DISPATCH 6 with Linux

Note: Backwards compatibility with DISPATCH Embedded on WinCE is supported.

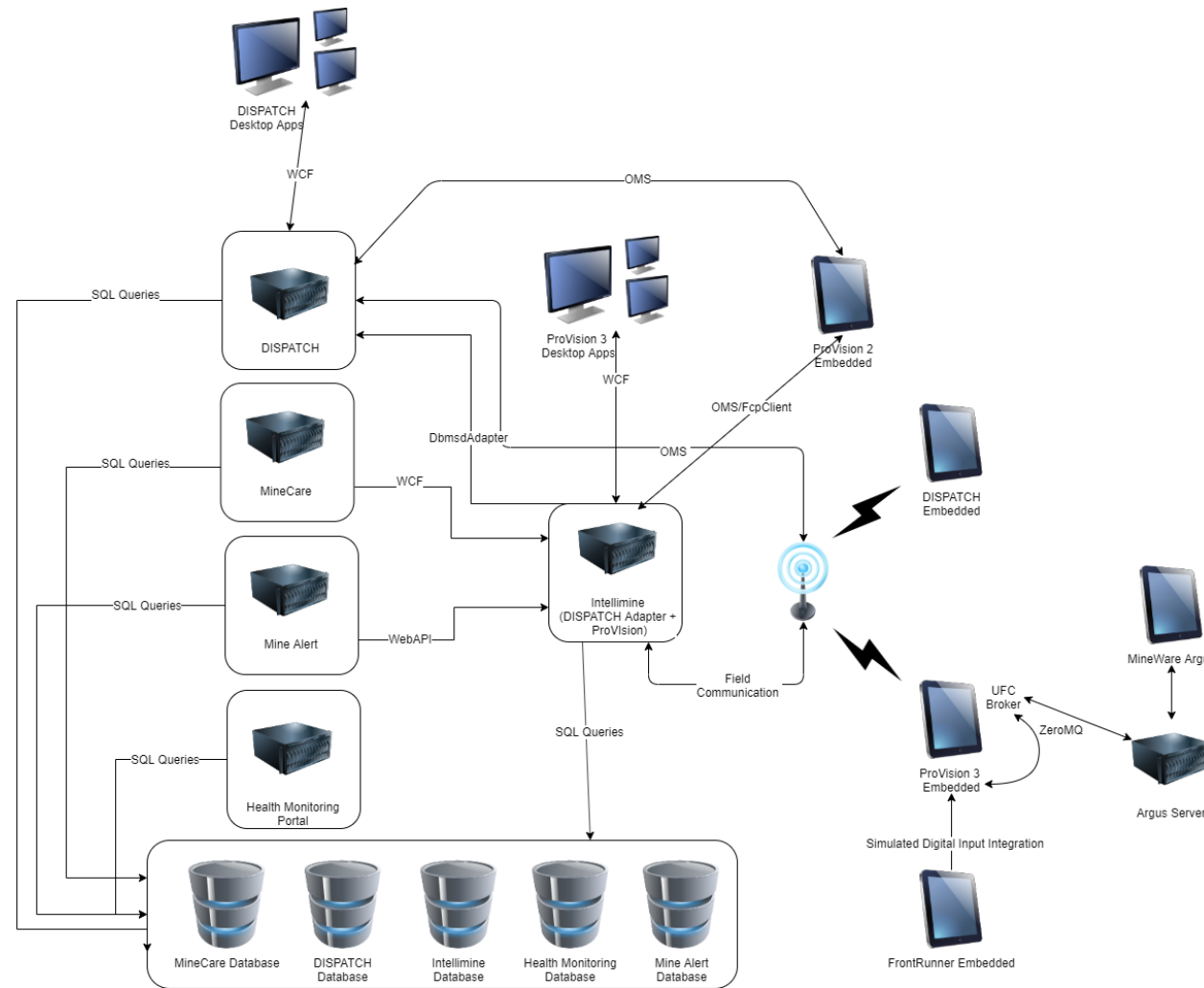
Note: The remote connection from MineView to PTX Linux devices uses a secure VNC_ENCRYPTION; however, except for some WCF messages, the other types of communication used by DISPATCH 6 are not secured.



ProVision 3

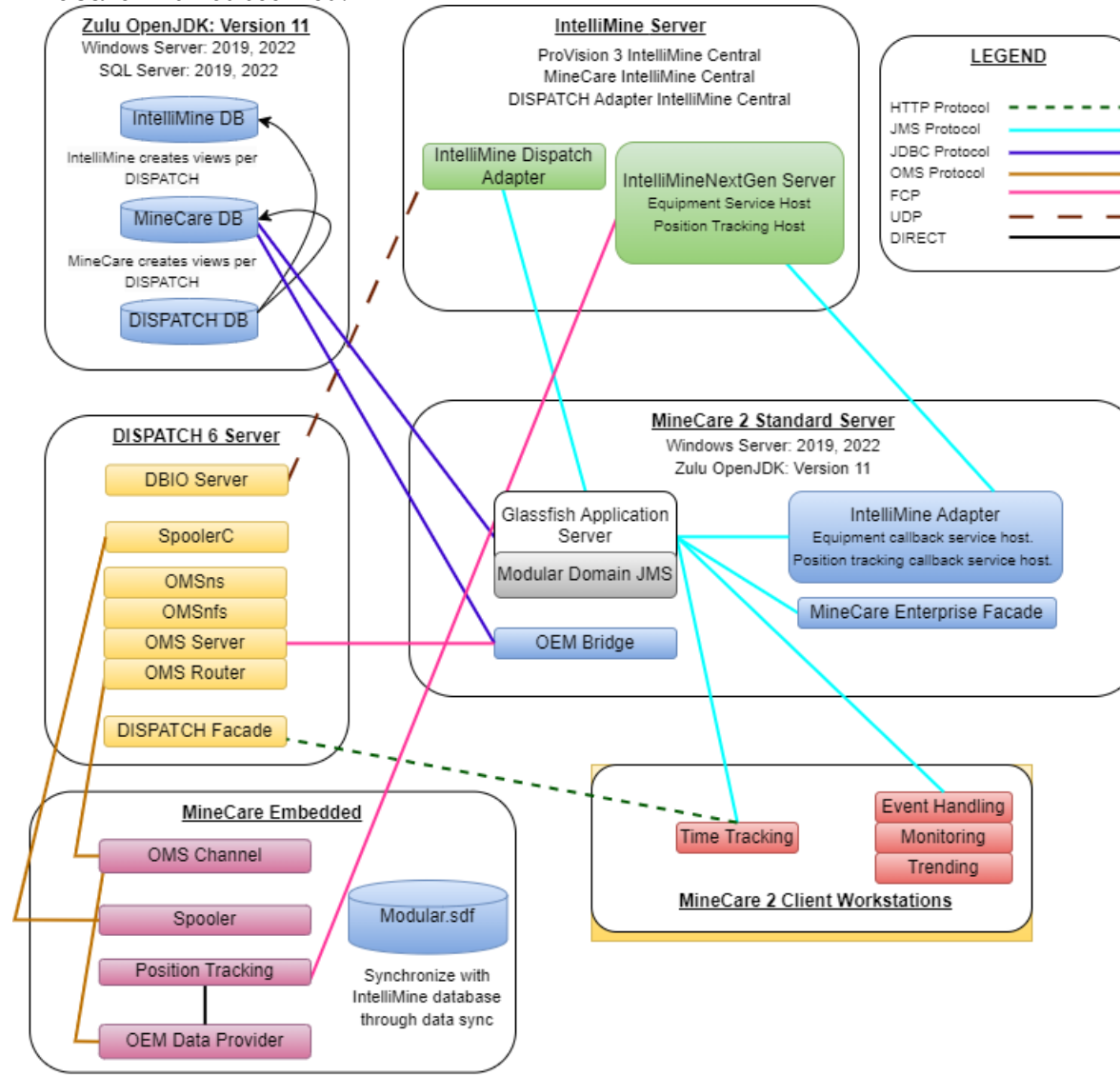
Note: WCF security for ProVision 3 is configurable. The WCF configuration must be consistent between the Server and Client.

- Server: Configure WCF security in Central Service Configuration.
- Client: Configure WCF security during installation. The settings can be changed manually after installation.



MineCare 2

Note: JMS used by MineCare 2 is not secured.



Revision History

Revision	Date	Comments
A	June 2022	First issue.
B	June 2023	Added text to indicate that DISPATCH 6.8.0 Update 3 and higher and MineCare 2.8.0 Update 1 and higher support Microsoft Windows 11 Professional in addition to Windows 10 on client machines.
C	July 2023	Updated the SQL Server section to show separate hardware requirements by application.
D	September 2023	Added a footnote stating that the DISPATCH Standalone and DISPATCH Integrated databases require at least 40% additional disc space when CDC is enabled.
E	May 2024	Added Firewall Configuration section.
