



Erowa JMS 4.0 IT Requirements

Version: 1.1
PMI (Erowa Product Management Integration)

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1 General:

1.1 Target group

This document is intended for technical personnel with IT knowledge. Typically, the customer's IT personnel. Please fill in the table in chapter 3.2.2 (if JMS is integrated into the Robot) or in chapter 4.4.2 (if JMS runs on an external PC).

1.2 Scope of this document

This document "IT Network Guidelines" provides guidelines and requirements for the IT (OT) network infrastructure and configuration at the customer site.

It covers EROWA Robots based on a TCP/IP network and EROWA process control software.

It contains the requirement for PC hardware for JMS4.0 PL if the hardware is supplied by the customer.

1.2.1 Realtime and Safety connection

The real-time and safety connection between Erowa Robot and machines is not covered in this document. It is done using hardwired signals and optional fieldbus signals with separate wiring according to separate documents. Please contact your sales representative for more information.

1.2.2 Additional requirements for JMS4.0 ML

In Case of JMS4.0 ML please use the document "[JMS_4.0_ML_Requirements_EN](#)".

1.3 How to use this document

- We recommend that Erowa first fills in the "Table 1" on page 6 or "Table 2" on page 9.
- Then the customer IT adds the remaining information.

1.4 Contact Information

Erowa AG
 Product Management Integration
 Knutwilerstrasse 3
 6233 Büron Switzerland
www.erowa.com

1.5 Abbreviations

Robot	Erowa Robot linear or stand alone
JMS	Job Management System (e.g. JMS4.0 PL, JMS4.0 ML, Pilot or 3 rd party Job Management...)

1.6 Versions

Version	Date:	Status	Author	Changes
1.0	11.2025	active	thw	Collecting information from different sources and documents
1.1	11.25	active	thw	Update linked documents

Status: draft The document is draft and not released yet.
 active The document is active and released.
 replaced The document has been replaced with a new version.

1.7 Document path

Type	Path
Original	J:\Divisions\TechnicsApplication\F&E\TAS\7 PO\Hosties Team\1 ProductionLine\1 Release Documents
Drawings	Subdirectory drawings

2 Network requirements

The customer must provide on-site IT support throughout the entire installation.

2.1 Separation of the automation network

We recommend separating the TCP/IP network of the automated cell from the company network to minimize distracting traffic and interruptions (see drawings below).

2.2 Responsibilities

Normally Erowa only provides the hardware inside the **purple** line see "Picture 1 Cell overview (JMS integrated in Robot)" or "Picture 2 Cell overview (JMS outside Robot on a dedicated PC)".

2.2.1 Network infrastructure

Provide, operate and maintaining the network infrastructure is the responsibility of the customer.

2.2.1.1 Network cables:

All cables from the company network to Robot and IPC's must be provided by the customer according to the length needed on site.

2.2.1.2 Router/VLAN

Providing router and VLAN hardware and the correct setup is the responsibility of the customer.

2.2.2 Windows Updates

The customer is responsible for the system updates. The following scenario is recommended by EROWA:

- Install all the latest Windows updates before installing the EROWA Software
- Disable (or prolong) automatic Windows updates
- Only controlled updates are recommended
 - If the PC is connected to the company domain, the domain update rules apply
 - If the PC has internet connection, it is recommended to perform security updates

2.2.3 Backup

2.2.3.1 Installation and initial backup

The EROWA Robot, EROWA software and other EROWA products will be installed by an EROWA service technician or a representative. After a successful installation, the EROWA service technician will create a backup of the installation.

2.2.3.2 Backup for JMS

The customer is responsible for backup of the process control software database, e.g. with Windows Task Scheduler.

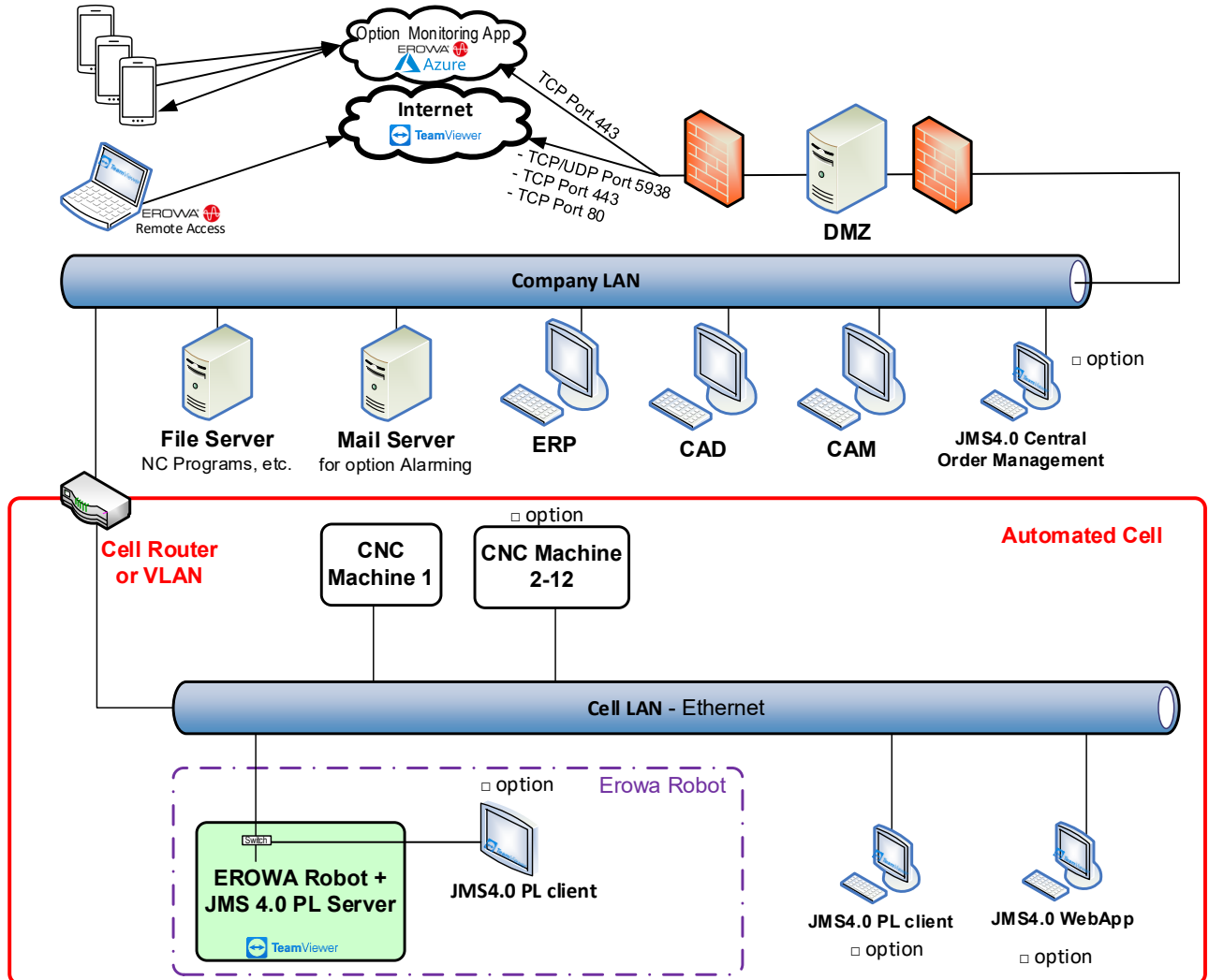
For example: create a daily database backup and save it to a network drive (shared drive).

- For JMS 4.0 PL, please see document "[JMS 4.0 ProductionLine - Backup and Restore Database.pdf](#)"¹.

¹ This document is part of the installation software package and will come with the installation (in folder 00_Backup & Documents).

3 Job Management integrated in Robot

3.1 Cell overview (JMS integrated in Robot)



Picture 1 Cell overview (JMS integrated in Robot)

3.2 JMS integrated in Robot network setting:

3.2.1 "Cell LAN" requirements

3.2.1.1 General requirements

A static IP address is required for machines, Robot, JMS additional PC's, etc.
Access from JMS to "File Server" is required to get NC programs

3.2.2 IP address settings:

Subnet mask: 255. . . IP reference static DHCP ²

Type	Controller:	IP:	Port (protocol) ³	Port (protocol)	Port (protocol)
Erowa Robot + JMS	Erowa	<input type="text"/>	(TCP)		443 (TCP) Monitoring ⁴
Machine 1		<input type="text"/>			
<input type="checkbox"/> option machine 2		<input type="text"/>			
<input type="checkbox"/> option machine 3		<input type="text"/>			
<input type="checkbox"/> option machine 4		<input type="text"/>			
<input type="checkbox"/> option machine 5		<input type="text"/>			
<input type="checkbox"/> option machine 6		<input type="text"/>			
<input type="checkbox"/> option machine 7		<input type="text"/>			
<input type="checkbox"/> option machine 8		<input type="text"/>			
<input type="checkbox"/> option machine 9		<input type="text"/>			
<input type="checkbox"/> option machine 10		<input type="text"/>			
<input type="checkbox"/> option machine 11		<input type="text"/>			
<input type="checkbox"/> option machine 12		<input type="text"/>			
<input type="checkbox"/> JMS4.0 PL client 1	Windows PC	<input type="text"/>	6233 (TCP) out	6235 (TCP) out	8081 (TCP) out (MDC ⁵)
<input type="checkbox"/> JMS4.0 PL client 2	Windows PC	<input type="text"/>	6233 (TCP) out	6235 (TCP) out	8081 (TCP) out (MDC)
<input type="checkbox"/> JMS4.0 PL client 3	Windows PC	<input type="text"/>	6233 (TCP) out	6235 (TCP) out	8081 (TCP) out (MDC)
<input type="checkbox"/> JMS4.0 PL client 4	Windows PC	<input type="text"/>	6233 (TCP) out	6235 (TCP) out	8081 (TCP) out (MDC)
<input type="checkbox"/> JMS4.0 PL client 5	Windows PC	<input type="text"/>	6233 (TCP) out	6235 (TCP) out	8081 (TCP) out (MDC)
<input type="checkbox"/> JMS4.0 PL client 6	Windows PC	<input type="text"/>	6233 (TCP) out	6235 (TCP) out	8081 (TCP) out (MDC)
<input type="checkbox"/> JMS4.0 PL client 7	Windows PC	<input type="text"/>	6233 (TCP) out	6235 (TCP) out	8081 (TCP) out (MDC)
<input type="checkbox"/> JMS4.0 PL client 7	Windows PC	<input type="text"/>	6233 (TCP) out	6235 (TCP) out	8081 (TCP) out (MDC)
<input type="checkbox"/> JMS4.0 PL client 8	Windows PC	<input type="text"/>	6233 (TCP) out	6235 (TCP) out	8081 (TCP) out (MDC)
<input type="checkbox"/> JMS4.0 WebApp	Windows PC	<input type="text"/>	443 (TCP) in ⁶	443 (TCP) in ⁷	
<input type="checkbox"/> Remote support	TeamViewer ⁸	Windows PC	<input type="checkbox"/> 80 (TCP) ☹️	<input type="checkbox"/> 443 (TCP) 🇪🇺	<input type="checkbox"/> 5938(TCP/UDP) 😊

Table 1 IP address settings

Fill in by customer IT (mandatory)	Fill in by customer IT (if option applies)	Fill in by Erowa engineer ⁹	No need to be filled in
------------------------------------	--	--	-------------------------

3.2.3 Contact Information¹⁰

² Erowa recommends static IP setting. If DHCP is used, the customer must make sure that the IP address does not change after initial setup (e.g. reserved IP addresses per network participant)

³ For port number see: Appendix 3: Port numbers for firewall settings page 12

⁴ Only if the option Monitoring App is used

⁵ Only needed with MDC option (Machine Data Collection)

⁶ Option WebApp: Every JMS4.0 Server connects to the WebApp Server (1 per site) → on Server outgoing on WebApp incoming

⁷ Option WebApp: Every JMS4.0 Server connects to the WebApp Server (1 per site) → on Server outgoing on WebApp incoming

⁸ For remote access security details, please see "4.4.3 Contact Information"

Company:	Name:	Department:	Date:	Email:	Phone:
Erowa:					
Customer:					

Remote Support and Security" page 10

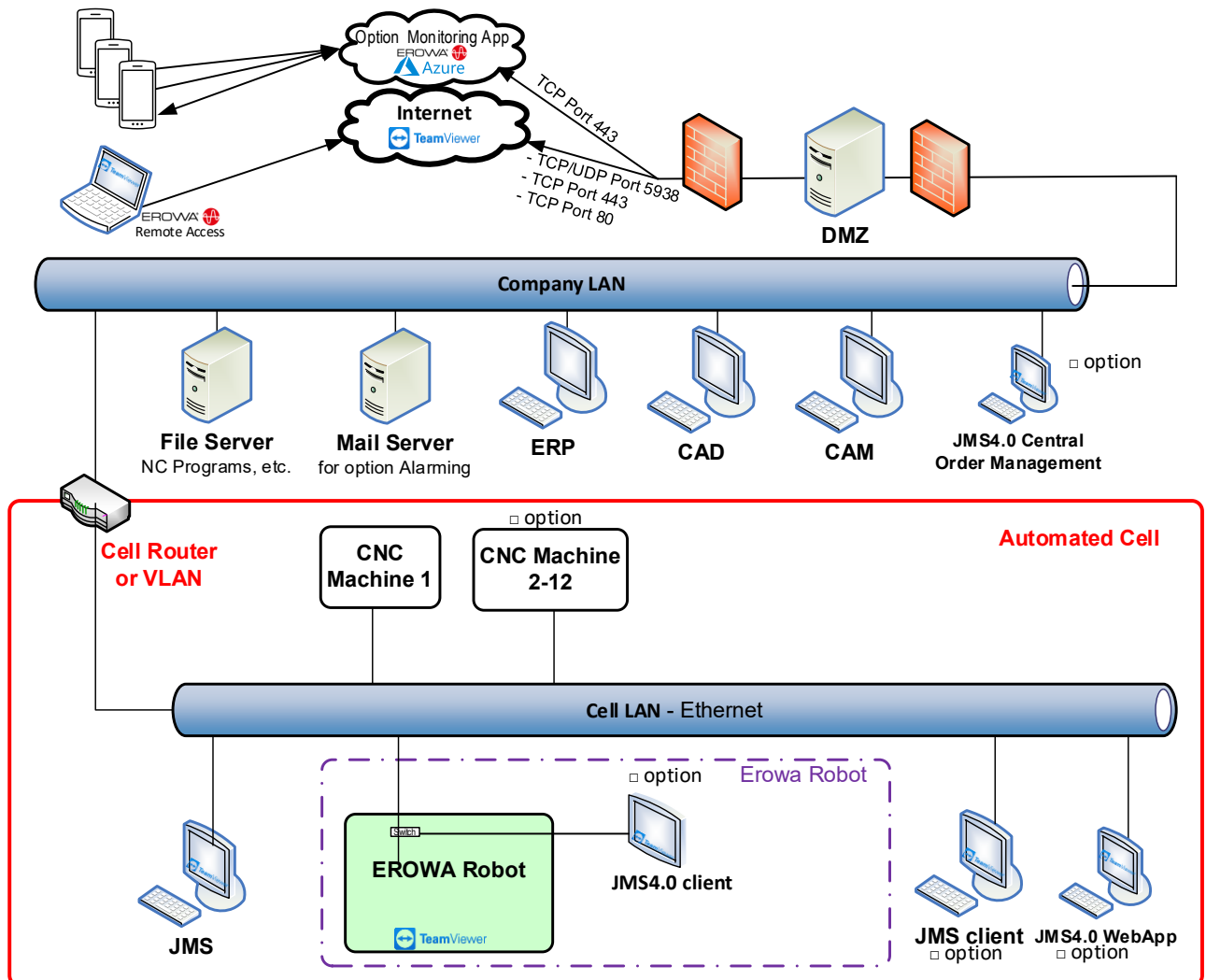
⁹ Since the PC is integrated into the Erowa Robot Erowa most of the firewall settings can be done by Erowa

¹⁰ Please fill in the contact information so it is clear who to contact when questions arise.

Company:	Name:	Department:	Date:	Email:	Phone:
Erowa:					
Customer:					

4 Job Management on a separate PC

4.1 Cell overview (JMS outside Robot)



Picture 2 Cell overview (JMS outside Robot on a dedicated PC)

4.2 Firewall settings:

- JMS 4.0 Server Service should be excluded from firewall protection.
- Local firewall must be switched off during the installation. After installation, this can be reactivated.

4.3 PC requirement for external PC

If the customer provides the PC, please consult the following information according to your products:

- JMS4.0 PL: Chapter 6 "[Appendix 1: PC requirements JMS4.0 PL](#)" page 11
- JMS4.0 ML: separate document: "[JMS 4.0 ML RequirementsSpecification.pdf](#)"
- JMS4.0 WebApp: Chapter 7 "[Appendix 2: PC requirements JMS 4.0 Web Application](#)" page 13

4.4 JMS Network setting (JMS on external PC)

4.4.1 "Cell LAN" requirements

A static IP address is required for machines, Robot, JMS additional PC's, etc.
Access to "File Server" from JMS is required to get NC programs

4.4.2 IP address settings:

Subnet mask: 255. . . IP reference static DHCP ¹¹

Type	Controller:	IP:	Port (protocol) ¹²	Port (protocol)	Port (protocol)
JMS (Server) PC	Windows PC				
Erowa Robot	Erowa		(TCP) out		
Machine 1					
<input type="checkbox"/> option machine 2					
<input type="checkbox"/> option machine 3					
<input type="checkbox"/> option machine 4					
<input type="checkbox"/> option machine 5					
<input type="checkbox"/> option machine 6					
<input type="checkbox"/> option machine 7					
<input type="checkbox"/> option machine 8					
<input type="checkbox"/> option machine 9					
<input type="checkbox"/> option machine 10					
<input type="checkbox"/> option machine 11					
<input type="checkbox"/> option machine 12					
<input type="checkbox"/> option Preset dev.			3001 (TCP) out		
<input type="checkbox"/> Client present ¹³			6233 (TCP) in	6235 (TCP) in	
<input type="checkbox"/> Option WebApp ¹⁴			443 (TCP)	389 (TCP) AD	
<input type="checkbox"/> Option Alarming			587(TCP) out		
<input type="checkbox"/> Option MDC			8081 (TCP) in		Client: 8081 (TCP) out ¹⁵
<input type="checkbox"/> JMS client 1	Windows PC		6233 (TCP) out	6235 (TCP) out	
<input type="checkbox"/> JMS client 2	Windows PC		6233 (TCP) out	6235 (TCP) out	
<input type="checkbox"/> JMS client 3	Windows PC		6233 (TCP) out	6235 (TCP) out	
<input type="checkbox"/> JMS client 4	Windows PC		6233 (TCP) out	6235 (TCP) out	
<input type="checkbox"/> JMS client 5	Windows PC		6233 (TCP) out	6235 (TCP) out	
<input type="checkbox"/> JMS client 6	Windows PC		6233 (TCP) out	6235 (TCP) out	
<input type="checkbox"/> JMS client 7	Windows PC		6233 (TCP) out	6235 (TCP) out	
<input type="checkbox"/> JMS client 8	Windows PC		6233 (TCP) out	6235 (TCP) out	
<input type="checkbox"/> JMS client 9	Windows PC		6233 (TCP) out	6235 (TCP) out	
<input type="checkbox"/> JMS4.0 WebApp ¹⁴	Software	Windows PC	443 (TCP) in		
<input checked="" type="checkbox"/> Remote support ¹⁶	TeamViewer	Windows PC	<input type="checkbox"/> 80 (TCP) ☹️	<input type="checkbox"/> 443 (TCP) 🇪	<input type="checkbox"/> 5938(TCP/UDP) 😊

Table 2 IP address settings on a separate PC (typically customer PC)

Fill in by customer IT (mandatory)	Fill in by customer IT (if option applies)	Fill in by Erowa engineer	No need to be filled in
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4.4.3 Contact Information¹⁷

¹¹ Erowa recommends static IP setting. If DHCP is used, the customer must make sure that the IP address does not change after initial setup (e.g. reserved IP addresses per network participant)

¹² For port number see: Appendix 3: Port numbers for firewall settings page 12

¹³ If minimal 1 external client is present these incoming ports are needed

¹⁴ Option WebApp: Every JMS4.0 Server connects to the WebApp Server (1 per site) → on Server outgoing on WebApp incoming

¹⁵ Set port 8081 (outgoing) for every client PC which uses the MDC option

¹⁶ For remote access security details, please see "4.4.3 Contact Information

Company:	Name:	Department:	Date:	Email:	Phone:
Erowa:					
Customer:					

Remote Support and Security" page 10

¹⁷ Please fill in the contact information so it is clear who to contact when questions arise.

Company:	Name:	Department:	Date:	Email:	Phone:
Erowa:					
Customer:					

5 Remote Support and Security

EROWA strongly recommends allowing remote support by TeamViewer on the automated cell in order to allow fast and efficient assistance by our technical support in case of any kind of issue. To increase the level of security, it is possible to allow remote support session only temporarily by opening the required ports in the firewall.

By using the QuickSupport tool on the computer, there is no need for any license or a software installation. It is sufficient to run the TeamViewerQS.exe file, which is available on our website: www.erowa.com/en/support

5.1.1 TeamViewer Security Standards

TeamViewer sessions are secured using RSA 4096 public/private key exchange and AES 256-bit encryption. This technology is used in a comparable form for https/TLS and is considered completely safe by today's standards. As the private key never leaves the client computer, this ensures that the interconnected computers, including the TeamViewer routing servers, cannot decipher the data stream.

The key exchange also guarantees that the data transfer is encoded completely from client to client and that any routers or servers in between are unable to read or analyse the data stream.

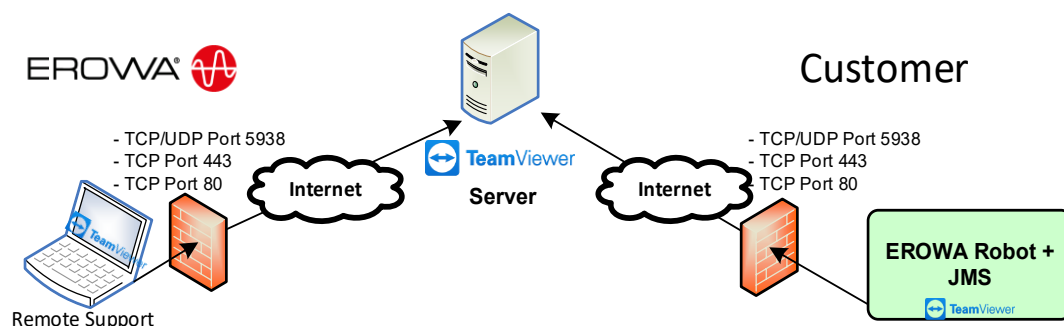
Source: TeamViewer.com

Key facts:

- 4096bit RSA Private/Public Key Exchange
- 256 bit AES encoding
- 2 factor authentication possible¹⁸
- Connection is initiated inside out by our customer
- Customer can close the session at any time
- EROWA cannot access the computer without customer authentication
- Incoming connections can be logged on the customer computer (*under %AppData% → TeamViewer*)

5.1.2 TeamViewer Ports

TCP/UDP PORT 5938	<ul style="list-style-type: none"> • Preferred port for outbound connections • Allow using this port for best remote support tool performance
TCP PORT 443	<ul style="list-style-type: none"> • If a connection over port 5938 is not possible, port 443 will be used
TCP PORT 80	<ul style="list-style-type: none"> • If a connection neither over port 5938 nor 443 is possible, port 80 will be used • A connection over this port is slower and less reliable than over ports 443 and 5938



Picture 3: Principle of TeamViewer connection

5.1.3 Benefits of Remote Support

¹⁸ MFA is not part of the preinstalled TeamViewer Quick Support tool. It needs separate installation and configuration from customer IT.

Remote support allows faster assistance in case of any unforeseen issues on the automated cell. From minor difficulties with the operation of the system, to software updates or to troubleshooting, our experienced support engineers can assist you via remote support. This saves time and travel costs.

- Assisted operation is possible, this will help to decrease downtime and save travel costs
- Basic troubleshooting to isolate a problem (correct spare parts can be shipped before technician arrives)
- Possibility to perform software updates

6 Appendix 1: PC requirements JMS4.0 PL

The end-user must supply all necessary hardware, software and network connections according to the requirements below for each required PC. The PC must have a newly installed operating system, free of eventually previous used software. He is also responsible for all required licenses.

6.1 Hardware (minimal requirements)

CPU:	Intel Core i7 QuadCore or min. i5 QuadCore (e.g. Intel Core i5-7400, 7th Generation, 3.5 GHz, 6 MB Cache)
RAM ¹⁹ :	16 GB total RAM is recommended, with 8 GB exclusively reserved for JMS 4.0 ProductionLine
HD:	SSD minimal 120 GB of free disk space
Video:	SXGA 1280X1024 or higher (e.g. NVIDIA QUADRO K620 or similar)
Screen:	21" or larger (24" for large magazines)
Input device:	keyboard and mouse (or similar)
Ports:	2 X RJ45 (LAN) 4 X USB (keyboard, mouse, hand reader, opt dongle) 1 X Video (e.g. VGA, DVI, DisplayPort, HDMI)
Network:	1 X 4-Port Switch (100Mbit/s)

6.2 Software

Operating System:	WIN 11 (64 Bit) (WIN 10 ²⁰ (64 Bit)) WIN Server 2016 or newer with latest .NET framework
Browser:	Microsoft Edge must be installed
SQL Server:	Microsoft SQL Server Express will be installed during the installation by the EROWA technician. FILESTREAM must be enabled for the SQL Server
Additional SW:	Preferably notepad++ is installed

6.3 General

Rights	Installation structure needs Administrator rights and full access (read and write access). Need local Administrator rights for Installation
Firewall	JMS 4.0 Server Service should be excluded from firewall protection. Local firewall must be switched off during the installation. After installation, this can be reactivated.

¹⁹ JMS 4.0 ProductionLine requires 8 GB of dedicated memory for stable operation. Systems with less than 16 GB of RAM may experience performance issues if other applications are running simultaneously.

²⁰ Possible but not recommended since Microsoft ends the support 14. October 2025

Virus Protection	At highest security settings, performance problems may occur (exclude root directory from constant virus scans)
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7 Appendix 2: PC requirements JMS 4.0 Web Application

The end-user must supply all necessary hardware, software and network connections according to the requirements below for the required PC. The PC must have a newly installed operating system, free of eventually previous used software. He is also responsible for all required licenses.

7.1 Hardware (minimal requirements)

CPU:	Intel Core i7 QuadCore or min. i5 QuadCore (e.g. Intel Core i5-7400, 7th Generation, 3.5 GHz, 6 MB Cache)
RAM:	8GB
HD:	SSD minimal 120 GB of free disk space
Video:	SXGA 1280X1024 or higher (e.g. NVIDIA QUADRO K620 or similar)
Screen:	21" or larger (24" for large magazines)
Input device:	keyboard and mouse (or similar)
Ports:	1 X RJ45 (LAN)
Network:	1 X 4-Port Switch (100Mbit/s)

7.2 Software

Operating System:	(WIN 10 ²¹ 64 Bit) WIN 11 64 Bit WIN Server 2016 or newer with latest .NET framework
Font:	Standard Font size (96dpi)
Browser:	Microsoft Edge, Google Chrome or Firefox

7.3 General

Rights	Need local Administrator rights for Installation
Virus Protection	At highest security settings, performance problems may occur (exclude root directory from constant virus scans)

²¹ Possible but not recommended since Microsoft ends the support 14. October 2025

8 Appendix 3: Port numbers for firewall settings

The following ethernet ports list gives a not exhaustive overview of commonly known port used by CNC, OEM, RobotControl. The direction is from JMS Server
 OEM could change ports without informing EROWA so we can't guarantee that this list is absolutely correct.

Port	Usage direction	Protocol	Description
HEIDENHAIN TNC Control			
19000	Outgoing from ANY to TCP Port 19000 on TNC Control	TCP	LSV2 communication for iTNC530 (TCP)
19003	Outgoing from ANY to TCP Port 19003 on TNC Control	TCP	DNC communication for TNC640 (RPC)
FANUC Control			
8193	Outgoing from ANY to TCP Port 8193 on Fanuc Control	TCP	Focas communication
8887	Incoming from ANY (broadcast address) to UDP Port 8887 (AD Win) on JMS 4.0 server	UDP	
FANUC Control (Data Server Option)			
21	Outgoing from ANY to TCP Port 21 (FTP) on Fanuc Control	TCP	Fanuc data server communication
SIEMENS Sinumerik Control			
445, 1039	Outgoing from ANY to TCP Ports 445, 1039 on Sinumerik Control	TCP	
3011	Outgoing from ANY to TCP Port "Machine Port" on Sinumerik Control – as configured in JMS 4.0, default is 3011.	TCP	SinCom / RPC / CMI communication
3010	Incoming from ANY to TCP Port "Host Port" on JMS 4.0 – as configured in JMS 4.0, default is 3010	TCP	SinCom / RPC / CMI communication
5900, 102	Outgoing & Incoming from ANY to TCP Ports 5900, 102	TCP	Internal CMI communication (On the PC where CMI is installed)
Arco CAD and EPA Server			
1401	Presoft	UDP/TCP	
1399	C3ArcoQuick local port	UDP/TCP	
1400	TCPServer local port	UDP/TCP	
1450	EPA local port	TCP	
1402	C3Runner local port	UDP/TCP	
55555 & 55556	WCF interface port for the JMS to EPA communication	TCP	
Preset devices			
3001	Outgoing	TCP	for Digimar presetter
3001	Outgoing	TCP	for Heidenhain presetter
Robot Control			
55551	Outgoing (ECU200 / LMC) from ANY to TCP Port "Configured" on Robot – as configured in JMS 4.0	TCP	EWIS protocol interface
55556	Outgoing (ECU300) from ANY to TCP Port "Configured" on Robot – as configured in JMS 4.0	TCP	EWIS protocol interface
4840	Outgoing (Erowa Robot Six – ER6)	TCP	OPC UA interface
3001	Outgoing from ANY to TCP Port "Configured" on COMSERVER – as configured in JMS 4.0	TCP	Interface with Scemtec box or Motion Control or SCU...

9 Appendix 4: Other questions

This section covers questions which are not needed for functions but are asked anyway

9.1 Use a customer database instead of the integrated solution

9.1.1 Erowa Robots

Some Robots use an internal database to store configuration and data, other do not. If a database exists, it is an integral part of the Robot hardware. It comes preconfigured, response time between real time applications and business logic must be guaranteed and is not prepared to run outside of the Robot hardware.

9.1.2 Erowa JMS4.0 PL

Erowa JMS4.0 PL uses the Microsoft SQL Express. It is possible to connect to another SQL Server (but only Microsoft SQL Server). However, Erowa does not recommend this (and can therefore not take responsibility) because:

- The configuration is more complex, since the (separate) configuration tool needs access.
- The installation costs are usually higher than a regular installation.
- FILESTREAM must be enabled on the server, and so only Microsoft SQL Server in a Microsoft Windows environment is supported.
- Version control is critical, especially after a Software update.
- Erowa cannot control all the involved components (and therefore not take responsibility).

In any case, such a configuration would be on a project base and needs detailed clarification.

An SQL specialist, which has all the needed permissions must be on site during the installation.