

# PHARMACY AND WHOLESALER MINIMUM SYSTEM REQUIREMENTS FOR CONNECTION TO THE NMVS

**SOLIDSOFT REPLY**

38 Grosvenor Gardens - London SW1W 0EB - United Kingdom  
tel +44 (0) 207 730 6000 - fax +44 (0) 207 259 8600

Grove House, Lutyens Close, Chineham Court, Basingstoke - Hampshire RG24 8AG - United Kingdom  
tel +44 (0) 1256 375700 - fax +44 (0) 1256 476361

[solidsoft@reply.com](mailto:solidsoft@reply.com)

[www.reply.com](http://www.reply.com)






## REVISION HISTORY

Version	Date	Description	Author
0.1	19-Mar-20	First draft created	Rizwan Rehman
0.2	29-May-20	Review updates	Rizwan Rehman
1.0	04-Jun-20	Approved	Rizwan Rehman

## DOCUMENT REVIEW HISTORY

Version	Date	Customer / Department / Function	Reviewed by
0.1	30-Apr-20	QA review	Matt Rymell
0.2	29-May-20	Content review	Ainsley Burdett

## DOCUMENT APPROVAL

Name	Role	Signature	Date	Agreement
Rizwan Rehman	Author	 Rizwan Rehman (Jun 4, 2020 13:21 GMT+1)	Jun 4, 2020	I am signing to certify this document has been produced following the prescribed process.
Ainsley Burdett	Solution Architect	 A F Burdett (Jun 4, 2020 13:13 GMT+1)	Jun 4, 2020	I am approving this document to certify that it meets Solidsoft Reply's business requirements.
Matt Rymell	Quality Manager	 Matt Rymell (Jun 4, 2020 13:28 GMT+1)	Jun 4, 2020	I am approving this document to certify that it meets business, quality and compliance requirements.

## DISTRIBUTION LIST

Name	Title	Company
All	Customer Representatives	NMVO
All Project Managers	All	Solidsoft Reply



## CONTENTS

<b>1</b>	<b>INTRODUCTION.....</b>	<b>4</b>
1.1	SYSTEMS.....	4
<b>2</b>	<b>Access to NMVS via API.....</b>	<b>4</b>
<b>3</b>	<b>PORTALS .....</b>	<b>5</b>



## 1 INTRODUCTION

This document details the minimum system requirements for pharmacies and wholesalers connecting to Solidsoft Reply's National Medicines Verification System (NMVS).

### 1.1 SYSTEMS

Solidsoft Reply's NMVS provides pharmacies and wholesalers with access to the following systems:

1. The main NMVS via an Application Programming Interface (API), for the purposes of decommissioning or verifying the active/decommissioned state of medicinal packs.
2. Portals (accessible via Internet browser):
  - Administration Portal.
  - Emergency Verification Application Portal.

## 2 ACCESS TO NMVS VIA API

Pharmacy and wholesaler information systems must be able to:

- Make REST API calls over the HTTP communication protocol.
- Use TLS 1.2 with specified supported cipher protocols (see list below).
- Obtain a security token from an Open ID Connect endpoint.

The list of supported cipher protocols is:

- Preferred protocols (for maximum security):
  - TLS\_ECDHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384 (0xc030)
  - TLS\_ECDHE\_RSA\_WITH\_AES\_128\_GCM\_SHA256 (0xc02f)
- Other supported protocols:
  - TLS\_ECDHE\_RSA\_WITH\_AES\_256\_CBC\_SHA384 (0xc028)
  - TLS\_ECDHE\_RSA\_WITH\_AES\_128\_CBC\_SHA256 (0xc027)
  - TLS\_ECDHE\_RSA\_WITH\_AES\_256\_CBC\_SHA (0xc014)
  - TLS\_ECDHE\_RSA\_WITH\_AES\_128\_CBC\_SHA (0xc013)



- TLS\_RSA\_WITH\_AES\_256\_GCM\_SHA384 (0x9d)
  - TLS\_RSA\_WITH\_AES\_128\_GCM\_SHA256 (0x9c)
  - TLS\_RSA\_WITH\_AES\_256\_CBC\_SHA256 (0x3d)
  - TLS\_RSA\_WITH\_AES\_128\_CBC\_SHA256 (0x3c)
  - TLS\_RSA\_WITH\_AES\_256\_CBC\_SHA (0x35)
  - TLS\_RSA\_WITH\_AES\_128\_CBC\_SHA (0x2f)
- 
- From NMVS R7 the following cipher suites will also be supported:
    - TLS\_DHE\_RSA\_WITH\_AES\_256\_GCM\_SHA384
    - TLS\_DHE\_RSA\_WITH\_AES\_128\_GCM\_SHA256
  - Note: We strongly recommend use of DNS names rather than IP addresses to connect to the system and for whitelisting in the local firewalls.

### **3 PORTALS**

To use the Administration Portal or Emergency Verification Application Portal, pharmacies or wholesalers will require:

- Any modern web browser that is HTML 5 compliant.
- Access to an email account to enable Two Factor Authentication.









# EMVS1899 - Pharmacy and Wholesaler Minimum System Requirements for Connection to the NMVS V1.0

Final Audit Report

2020-06-04

Created:	2020-06-04
By:	Gloria Fullah (g.fullah@reply.eu)
Status:	Signed
Transaction ID:	CBJCHBCAABAAjQdRL5QCN8T7TnEqaiJoJSZYXlIf06bK

## "EMVS1899 - Pharmacy and Wholesaler Minimum System Requirements for Connection to the NMVS V1.0" History

-  Document created by Gloria Fullah (g.fullah@reply.eu)  
2020-06-04 - 12:09:23 PM GMT- IP address: 109.151.19.120
-  Document emailed to Rizwan Rehman (r.urrehman@reply.eu) for signature  
2020-06-04 - 12:11:22 PM GMT
-  Document emailed to A F Burdett (a.burdett@reply.eu) for signature  
2020-06-04 - 12:11:22 PM GMT
-  Document emailed to Matt Rymell (m.rymell@reply.eu) for signature  
2020-06-04 - 12:11:22 PM GMT
-  Email viewed by A F Burdett (a.burdett@reply.eu)  
2020-06-04 - 12:12:08 PM GMT- IP address: 90.248.84.37
-  Document e-signed by A F Burdett (a.burdett@reply.eu)  
Signature Date: 2020-06-04 - 12:13:06 PM GMT - Time Source: server- IP address: 90.248.84.37
-  Email viewed by Rizwan Rehman (r.urrehman@reply.eu)  
2020-06-04 - 12:20:38 PM GMT- IP address: 182.188.148.32
-  Document e-signed by Rizwan Rehman (r.urrehman@reply.eu)  
Signature Date: 2020-06-04 - 12:21:37 PM GMT - Time Source: server- IP address: 182.188.148.32
-  Email viewed by Matt Rymell (m.rymell@reply.eu)  
2020-06-04 - 12:28:01 PM GMT- IP address: 82.8.164.146

 Document e-signed by Matt Rymell (m.rymell@reply.eu)

Signature Date: 2020-06-04 - 12:28:23 PM GMT - Time Source: server- IP address: 82.8.164.146

 Signed document emailed to Matt Rymell (m.rymell@reply.eu), Rizwan Rehman (r.urrehman@reply.eu), Gloria Fullah (g.fullah@reply.eu), and A F Burdett (a.burdett@reply.eu)

2020-06-04 - 12:28:23 PM GMT