



# **Non-Functional Requirements Document for "VAT Protocols Acknowledgement Tracker" (VATPAT)**

## **1. Introduction**

### **1.1 Purpose**

This document outlines the non-functional requirements for the VATPAT application. It captures essential requirements to ensure the system's efficiency, reliability, and scalability while providing optimal user satisfaction.

### **1.2 Scope:**

VATPAT is a web-based application designed to manage and automate the tracking of VAT protocol acknowledgements, streamline communications with dealers, and ensure proper record-keeping and compliance.

## **2. Performance**

### **2.1 Response Time:**

- Expected average response time for user requests: Not relevant.
- Peak times during which the system might experience high user loads: 1st day of month and every Monday. However, based on credit notes data volume it should make no difference.

### **2.2 Throughput:**

- Expected number of transactions the system should handle per unit of time: Too low to be considered.
- Expected high-frequency events or times when system throughput might spike: 1st day of month and every Monday. However, based on the last 6 months of credit notes and the total number of dealers, it should make no difference.

## **3. Scalability**

### **3.1 Growth:**

- Anticipated growth in data volume over the next few years: Not for the moment.
- Expansion plans in terms of regions or dealer network: Not for the moment.

## **4. Availability and Reliability**

### **4.1 Uptime:**

- Desired system uptime percentage: Approximately 23.81% during the specified period (5 days a week, 8 hours per day).
- Specific hours when the system must remain available: Will be the same as the hosting server (EHEINWNAV03SP). Need to check service level of this server.

### **4.2 Data Recovery:**

- Time to recover data after system failures: Will be the same as the hosting server (EHEINWNAV03SP).
- Acceptable data loss: None.
- Data from the VATPAT tool (dealer acknowledgements) will be stored in a SQL Server DB.

### **4.3 Failover:**



- Expected failover time: Will be the same as the hosting server (EHEINWNAV03SP).
- Strategies or tools for failover capabilities: Will be the same as the hosting server (EHEINWNAV03SP).

## **5. Security**

### **5.1 Authentication:**

- Need for two-factor authentication: No.
- Compatibility with SSO or existing systems: Not a requirement; Windows active directory is nice to have.

### **5.2 Data Encryption:**

- Data encryption standards or protocols: Not required for external use, intended for internal use only.
- Data elements or channels requiring stronger encryption: No.

### **5.3 Access Control:**

The system provides role-based access controls. There are two account types: 'business' and 'power user'.

### **5.4 Auditing:**

All user activities, especially data or configuration changes, will be logged for a minimum of 10 years.

## **6. Usability**

### **6.1 User Interface:**

The user interface should be intuitive, requiring minimal training for new users.

### **6.2 Accessibility:**

- Specific accessibility standards or regulations: None.
- Compatible assistive technologies or tools: None.

## **7. Maintainability**

### **7.1 Modularity:**

The system's architecture should be modular to easily facilitate updates and changes without affecting other components.

### **7.2 Documentation:**

Comprehensive documentation will be provided for both users and system administrators.

## **8. Integration**

### **8.1 Interoperability:**

The application will be able to communicate seamlessly with external systems, such as the Navision database and email systems. When the need arises, the system should be capable of processing an interface file from S4. A requirement for a possible future interface with S4 should be defined, including the file structure and mandatory information the VATPAT app needs to receive. In the



future, the application might also expose an API endpoint for data retrieval, but this is not needed now and can be kept in the backlog.

## **9. Backup and Restore**

### **9.1 Backup Frequency:**

- Data backups for VATPAT application data: Will be the same as the hosting server (EHEINWNAV03SP).
- Differential or incremental backups: Will be the same as the hosting server (EHEINWNAV03SP).

### **9.2 Restore:**

- Maximum allowable downtime for restores: Will be the same as the hosting server (EHEINWNAV03SP).
- Preference for backup locations: Will be the same as the hosting server.

Note: Navision is not on-site; it is on the IBM datacentre.

## **10. Compliance**

### **10.1 Data Retention:**

All necessary records, especially VAT protocol acknowledgement sheets, will be stored securely for at least 10 years, in compliance with relevant regulations.