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4 **EU VICH adverse event report implementation guide**  
5 **Draft**

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<b>Keywords</b>	VICH, AER, adverse event report, veterinary pharmacovigilance
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## 82 **1. Introduction**

83 This document aims to support stakeholders in the implementation of *Regulation (EU) 2019/6 of the*  
84 *European Parliament and of the Council of 11 December 2018 on veterinary medicinal products and*  
85 *repealing Directive 2001/82/EC*<sup>1</sup> ('the Regulation'), by providing guidance on the technical  
86 specifications and the process of transmission of adverse event reports (AERs). It is targeted at all  
87 stakeholders responsible for submitting AERs electronically to the Union Pharmacovigilance Database.

88 The document is provided by the European Medicines Agency ('the Agency') to describe the rules that  
89 stakeholders must follow to ensure successful electronic communication between their own systems  
90 and EudraVigilance Veterinary (EVV), which is a constituent part of the Union Pharmacovigilance  
91 Database.

92 The focus of this implementation guide is therefore on technical specifications relating to the  
93 implementation of the legislative requirements and VICH standards. Detailed reporting requirements  
94 are out of scope; these are described in the *[draft] Commission Implementing Regulation [xxx] laying*  
95 *down rules for the application of Regulation (EU) 2019/6 of the European Parliament and of the Council*  
96 *as regards good pharmacovigilance practice and on the format, content and summary of the*  
97 *pharmacovigilance system master file for veterinary medicinal products* ('the Implementing  
98 Regulation') and in the *[draft] Guideline on good veterinary pharmacovigilance practices relating to*  
99 *recording, reporting and incidence calculation of suspected adverse events for veterinary medicinal*  
100 *products*.

### 101 **1.1. Legal base**

102 The Regulation defines obligations for marketing authorisation holders (MAH) and national competent  
103 authorities (NCA) to report suspected adverse events following the administration of veterinary  
104 medicinal products, directly to the Union Pharmacovigilance Database, and that this reporting should  
105 be compliant with the relevant VICH guidelines.

106 Article 74 of the Regulation; as well as the Implementing Regulation, outline the requirements related  
107 to the establishment of a Union Pharmacovigilance Database as a data processing network and  
108 management system for the reporting and recording of suspected adverse events following marketing  
109 authorisation of veterinary medicinal products in the European Economic Area (EEA).

110 Article 73 of the Regulation lays down reporting obligations of competent authorities, the Agency and  
111 marketing authorisation holders and as regards the recording and reporting of suspected adverse  
112 events for veterinary medicinal products authorised in accordance with this Regulation.

113 Recital (58) of the Regulation further states that "it is necessary to take account of changes arising as  
114 a result of international harmonisation of definitions, terminology and technological developments in  
115 the field of pharmacovigilance."

116 Resulting from the above-mentioned legislative requirements, the existing EudraVigilance Veterinary  
117 system will be upgraded to provide the fundamental components of the Union Pharmacovigilance  
118 Database, in full compliance with the specifications of the relevant VICH<sup>2</sup> guidelines, specifically:

- 119 • VICH GL42 on Pharmacovigilance: data elements for submission of adverse event reports
- 120 • VICH GL35 on Pharmacovigilance: electronic standards for transfer of data
- 121 • VICH GL30 on Pharmacovigilance: controlled list of terms

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<sup>1</sup> [Regulation \(EU\) 2019/ of the European Parliament and of the Council of 11 December 2018 on veterinary medicinal products and repealing Directive 2001/82/EC \(europa.eu\)](#)

<sup>2</sup> International Cooperation on Harmonization of Technical Requirements ([vichsec.org](#))

## 122 **1.2. The VICH guidelines and step by step guide**

123 The VICH Step by Step document<sup>3</sup> is a supplement to VICH GL35 on Pharmacovigilance: electronic  
124 standards for transfer of data and describes an approach for all partners striving towards the  
125 implementation of the VICH guidelines related to pharmacovigilance adverse event reporting. In  
126 practice, legislation and national or regional differences can lead to differing requirements in certain  
127 aspects of safety monitoring. Legislation may require information in one region that is inappropriate to  
128 share or transmit in another region. Differing priorities may require information in one region that is of  
129 no interest in another region or would not normally be collected.

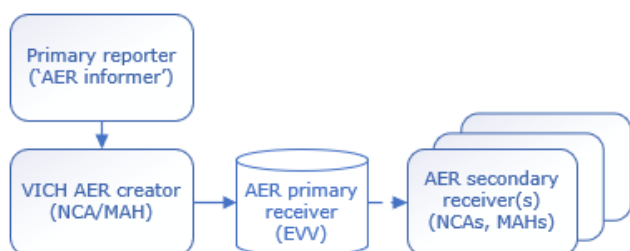
130 The VICH standard itself contains a broad set of technical tools (elements and approaches) to capture  
131 information that may not be mandatory as part of the core, harmonised AER but may be used only by  
132 specific regions. This implementation guide clarifies the use of EU specific data elements that are not  
133 part of the mandatory VICH core AER. In addition, this guide provides the validation rules specific for  
134 the EU implementation.

135 This document sets out the specific requirements for the electronic exchange of AERs in the EU and is  
136 therefore an extension to the VICH guidelines and step by step document. This implementation guide  
137 should therefore not be used as a stand-alone document when implementing the VICH standard for  
138 submission of AERs but should be read in conjunction with the VICH Step by Step document and  
139 related guidelines and guidance materials published on the VICH and EMA websites.

## 140 **1.3. Union Pharmacovigilance Database - EudraVigilance Veterinary**

141 The Union Pharmacovigilance Database is established to operate services and processes to support  
142 pharmacovigilance in the EU. EudraVigilance Veterinary is the European Union data processing network  
143 and database management system for the exchange, processing and evaluation of AERs related to  
144 veterinary medicinal products authorised in the EEA and thus forms a fundamental component of the  
145 Union Pharmacovigilance Database.

## 146 **1.4. Overview of AER message flow**



147  
148 **Figure 1: VICH message flow**  
149

150 The exchange of AER safety messages starts with the primary reporter of the adverse event. The  
151 primary reporter will provide information to a responsible organisation (NCA or MAH), who are usually  
152 subject to legal obligations to report the information to the Union Pharmacovigilance Database. In  
153 most situations the AER informer will not provide this information in the VICH format. The VICH AER  
154 creator is therefore responsible for creating an AER message in the correct format and submit the  
155 message to the Union Pharmacovigilance Database. The primary receiver (the database) may forward  
156 AERs to other parties; in which case the AERs might be updated with minor administrative changes but  
157 the information as captured from the original source is maintained.

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<sup>3</sup> [VICH step by step document](#) (5 November 2014; version 1.0.2)

## 158 **2. VICH adverse event reporting in the EU**

### 159 **2.1. Electronic data interchange**

160 The electronic data interchange (EDI) process is describing the electronic exchange of an AER message  
161 between a sender and a receiver. The acknowledgement message confirms the receipt and the  
162 outcome of the validation of an AER message and completes the EDI process. Technical tools such as a  
163 web-based interface have been made available to interested EDI partners to facilitate compliance with  
164 the electronic reporting requirements as defined in the legislative framework<sup>4</sup>, removing the need to  
165 establish or adjust a national pharmacovigilance database.

166 This section describes the procedures concerning the EDI of AERs in the post-authorisation phase and  
167 the roles of all involved stakeholders in the EEA. It also describes the operational requirements and  
168 agreed standards for EDI and the secure exchange of adverse event and acknowledgement messages.  
169 In the EEA, the system used for exchange of AER messages is EudraVigilance Veterinary (EVV).

170 In addition, this section specifies the technical requirements and the process of transmission of  
171 electronic reports and messages through the EudraVigilance Veterinary gateway and describes the  
172 obligations that EDI partners must adhere to in this process to ensure successful electronic  
173 communication. The implications of electronic reporting regarding the legal reporting compliance as  
174 defined in EU legislation, the evaluation steps and the recovery procedures in the event of a  
175 communication failure are also described.

176 The definitions of the terms used in this document are provided in the Appendix under Electronic Data  
177 Interchange Definitions.

178 An overview of the process of EDI exchange is provided in the Appendix under Schema of AE report  
179 transactions using gateway and Schema of AE report transactions using EVWeb.

#### 180 **2.1.1. Registration process**

181 Registration with EudraVigilance Veterinary is necessary to identify and manage organisation and user  
182 access to the system. This enables registered users to submit AERs on behalf of the organisation(s)  
183 they represent. The registration process ensures that adequate privacy and security measures are in  
184 place and that the principles of data integrity, accountability and availability are adhered to.

185 The registration<sup>5</sup> and management of EudraVigilance Veterinary organisations and individual users has  
186 been integrated with the [EMA Account Management Portal](#) and the [Organisation Management Services \(OMS\)](#).  
187

188 Only registered organisations are permitted to exchange adverse event and acknowledgement  
189 messages by means of the Gateway. A list of registered organisations, which are part of the  
190 EudraVigilance Veterinary user community is maintained by the Agency and is accessible for all  
191 registered partners. The ID and description of the registered organisation is available in OMS.

#### 192 **2.1.2. Main functional components of EudraVigilance Veterinary**

##### 193 **2.1.2.1. EudraVigilance Database Management System (EVDBMS)**

194 The EudraVigilance Database Management System (EVDBMS) consists of:

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<sup>4</sup> More information is available here: [EudraVigilance Veterinary](#)

<sup>5</sup> Details and instructions for the [registration process](#)

- 195 • A fully integrated organisation and user management in the EudraVigilance community  
196 synchronised with the EudraVigilance Gateway profile management.  
197 • A fully automated message processing mechanism, using XML-based messaging, supporting both  
198 asynchronous data interchange and interactive transactions.  
199 • A large reference pharmacovigilance database, which is built by importing and consolidating data  
200 from multiple sources, including information on medicinal products and adverse drug reactions.  
201 • An extensive query and tracking/tracing capability, both from a scientific and administrative  
202 business perspective.

### 203 **2.1.2.2. EudraVigilance ESTRi Gateway**

204 The EudraVigilance gateway is an electronic regulatory submission environment, which follows the ICH  
205 M2 gateway recommendation on Electronic Standards for the Transmission of Regulatory Information  
206 (ESTRi).

207 The purpose of the EudraVigilance gateway is to operate a single, common, EEA-wide gateway for  
208 receiving regulatory submissions in a fully automated and secure way, including all aspects of privacy,  
209 authentication, integrity and non-repudiation of all transactions in pharmacovigilance.

210 The EudraVigilance gateway allows the pharmaceutical industry to report to a common reporting point  
211 within the EEA, from where the transactions are re-routed to the concerned regulatory authorities. It  
212 provides the NCAs with a secure reporting mechanism to the EMA. MAHs are responsible for  
213 implementing at least one of the supported ESTRi standards in order to ensure electronic  
214 communication with any EEA Regulatory Authority.

215 The EudraVigilance gateway supports two transmission modes:

- 216 • The EV WEB transmission mode

217 The EudraVigilance Web transmission mode is an integrated component of the EudraVigilance  
218 gateway designed to support small and medium size enterprises (SMEs) or regional  
219 pharmacovigilance centres (RPCs) to generate, send and receive AERs in a secure way, to any  
220 registered organisation within the EVWEB system

- 221 • The Gateway transmission mode

222 The Gateway transmission mode is available to an organization that has a pharmacovigilance  
223 database that is fully compliant with the applicable exchange standards, which permits the  
224 generation and receipt of AERs and the electronic transmission of them via a local gateway solution  
225 that meets the ICH M2 recommendations and has been successfully tested and connected with the  
226 EudraVigilance gateway.

### 227 **2.1.3. Security**

228 To facilitate the secure transmission of adverse event and acknowledgement messages over the  
229 internet, each party should implement and maintain security procedures and measures in order to  
230 ensure the protection of these messages against the risks of unauthorised access, disclosure,  
231 alteration, delay, destruction or loss, ensuring the verification of integrity, the non-repudiation of origin  
232 and receipt and ensuring the confidentiality of the individual message. This includes the installation  
233 and operation of applications that allow for the successful transmission and receipt of encrypted and  
234 digitally signed adverse event and acknowledgement messages via the EudraVigilance gateway or the  
235 use of service providers for this purpose. The software or service necessary to create, transmit,  
236 receive, translate, record and store adverse event and acknowledgement messages should be in full  
237 compliance with the specifications provided in this document.

238 The gateway uses a combination of public/private key encryption, which is also known as asymmetric  
239 encryption and symmetric key encryption. The gateway supports RC2, RC4, DES (Data Encryption  
240 Standard) and Triple DES encryption algorithms. Only X.509 certificates are accepted.

241 For the exchange of adverse event and acknowledgement messages the EDI partners are operating in  
242 a closed user group i.e. the parties are known to each other. Therefore, the parties agree to use the  
243 RSA cryptosystem for asymmetric encryption and the digital signatures provided by using certificates.  
244 Two types of RSA keys will be accepted:

- 245 • Keys issued by a certification authority, i.e. managed keys.
- 246 • Keys generated by the party individually, i.e. self-signed keys.

247 The following bullet points specify the algorithm and key lengths for symmetric and asymmetric keys  
248 acceptable to the EMA:

- 249 • Symmetric algorithm for document encryption  
250 Triple DES 168 bits
- 251 • Asymmetric algorithm for authentication  
252 RSA 1024 or 2048 bits

253 Dual keys are also supported.

254 Before encrypted and signed adverse event and acknowledgement messages can be exchanged, each  
255 party must obtain the other's public key. This will be done after each party has created its gateway  
256 profile. Each party generates a self-signed certificate or obtains one from a certification authority.  
257 Either way, the process must result in the creation of a public/private key pair for each party. The  
258 private half of this key always remains with the party, the public half is provided to the other party.

259 For each party to be connected to the gateway, profile information must be exchanged between the  
260 EDI partner and the Agency. The following items are required for the proper creation of the EDI  
261 partner's profile on the gateway:

- 262 • Organisation Name
- 263 • Complete Address (Street, City, State, Postcode, Country)
- 264 • Gateway Contact Name
- 265 • Gateway Contact E-Mail Address
- 266 • Gateway Contact Phone Number

267 The corresponding EMA-EudraVigilance information will then be supplied to the EDI partner.

268 There are 2 different scenarios for the exchange of this information.

- 269 • Gateway self-registration if using a product supporting such functions
- 270 • Manual exchange of the above information via e-mail with the addition of the EDI partner's public  
271 encryption certificate

272 A new certificate must be generated or obtained by each party when

- 273 • It becomes evident or it is suspected that a certificate has been compromised
- 274 • A certificate needs to be replaced because it expires
- 275 • The encryption key is changed at planned intervals

276 If the use of the above security procedures and measures result in the rejection of or in the detection  
277 of an error in an adverse event or acknowledgement message(s) transmission, the receiver should  
278 inform the sender thereof within two business days. The sender should initiate an alternative recovery  
279 procedure following the instructions of the Agency and resubmit the adverse event or  
280 acknowledgement message(s) until successful completion of this process as outlined in section 2.1.10.



## 281 **2.1.4. Data protection**

282 All adverse event and acknowledgement messages should be stored and treated confidentially in the  
283 same way as other medical documents. The EDI Message being an adverse event or acknowledgement  
284 message, sent or received, should, for the security of the transaction, be stored securely and without  
285 alteration.

286 The data transferred between EDI partners will constitute, if necessary, evidence of the adverse event  
287 or acknowledgement message, and should be stored in the format it has been originally sent or  
288 received, without any alteration of the message.

289 Data should be stored by the receiver in a dedicated pharmacovigilance information system in  
290 accordance with requirements detailed in the guideline on good veterinary pharmacovigilance practices  
291 on the recording, reporting and incidence calculation of suspected adverse events for veterinary  
292 medicinal products [*draft*]. It should be ensured that readability of historic EDI messages is  
293 maintained. Conformity of stored data with the initial AER, if not received electronically, should be  
294 ensured by a quality control procedure, which provides for validation against the original data.

295 Storage should ensure traceability (audit trail) of all data entered or modified, including dates and  
296 sources of received data, dates and destinations of transmitted data.

297 Each party should safeguard electronic data from tampering and unauthorised disclosure to ensure, at  
298 a minimum, the same level of protection as required for their paper equivalents.

299 This protection must be extended beyond the transactions to any files or databases that contain  
300 information conveyed via EudraVigilance Veterinary. Each party must ensure and provide the security  
301 to maintain the confidentiality of the information. When applicable, both parties must also maintain the  
302 confidentiality of passwords and other codes required for accessing this information.

303 Furthermore, any services performed by any intermediary in respect of such confidential information  
304 should likewise be subject to the same degree of confidentiality.

305 For NCAs and MAHs, the General Data Protection Regulation (GDPR), i.e. Regulation (EU) 2016/679 on  
306 the protection of natural persons with regard to the processing of personal data and on the free  
307 movement of such data, applies accordingly. The Agency does not operate under the GDPR but is  
308 subject to the EU Data Protection Regulation (DPR), i.e. Regulation (EU) 2018/1725 on the protection  
309 of natural persons with regard to the processing of personal data by the Union institutions, bodies,  
310 offices and agencies and on the free movement of such data.

## 311 **2.1.5. Reporting**

### 312 **2.1.5.1. EVWeb Mailbox**

313 The EVWeb Mailbox provides an alternative solution to the use of a local gateway to support the  
314 electronic transmission of adverse event and acknowledgement messages. The EVWeb Mailbox allows  
315 registered EDI partners to exchange EDI messages with the EudraVigilance Veterinary database. The  
316 EVWeb Mailbox is only available to EDI partners which are not registered as gateway users in  
317 EudraVigilance Veterinary, i.e. organisations that do not have a local gateway established to support  
318 the EDI process in pharmacovigilance.

319 The message flow using the EVWeb Mailbox is outlined in the Appendix under Schema of AE report  
320 transactions using EVWeb.

321 In addition, EVWeb contains tracking functions that enable the EDI partner registered as EVWeb  
322 Mailbox user to view the date of the transmission of all EDI Messages that have been sent and  
323 received.

324 As a general principle, the responsibility for the use of EVWeb and the EVWeb Mailbox lies solely with  
325 the EDI partner that subscribes to these services.

#### 326 **2.1.5.2. EVWeb reporting (create and send AERs via EVWeb)**

327 Interested registered parties can exchange adverse event and acknowledgement messages in a semi-  
328 automatic way using the EudraVigilance Veterinary web application (EVWeb), which allows the manual  
329 creation of adverse event and acknowledgement messages and their administration by a user via a  
330 web interface.

331 EVWeb can be used by any MAH or NCA in the EEA but is specifically targeted at SMEs which do not  
332 maintain a fully VICH compliant pharmacovigilance database and/or ESTRIM gateway. It provides the  
333 necessary tool to allow EDI partners secure electronic reporting to the EMA.

334 EVWeb users must register and access to EVWeb is personal and non-transferable for each user of  
335 each organisation. It is achieved through personal login, and password access keys can be obtained  
336 following registration with EudraVigilance.

337 EVWeb allows registered EDI Partners to:

- 338 • Generate fully VICH compliant adverse event and acknowledgement messages and to electronically  
339 transmit these messages in secure way via the messaging gateway to the EudraVigilance  
340 Veterinary database.
- 341 • Access EVWeb for query purposes in line with the EudraVigilance access policy for medicines for  
342 veterinary use<sup>6</sup>.

343 An adverse event message can be considered successfully transmitted by the sender when, after  
344 pressing the 'Send' button, the pop-up window in EVWeb displays the notice 'Message sent'. The  
345 sender can confirm the successful transmission of messages submitted via EVWeb by checking the  
346 presence of the sent adverse event message in the EVWeb Mailbox Outbox section. The sender should  
347 check the EVWeb Mailbox Inbox on a regular basis to obtain the acknowledgement message that  
348 confirms successful receipt and processing by the receiver of the adverse event message.

#### 349 **2.1.5.3. EVPOST (import and send AERs via EVPOST)**

350 As part of EVWeb DEG/VICH files created by the EDI partner's pharmacovigilance system can, in the  
351 future, be transmitted without maintaining a local gateway connection, by allowing upload of files using  
352 the EVPOST function. *This functionality will only be made available later in 2022.*

#### 353 **2.1.5.4. Gateway reporting (create and send via gateway)**

354 The gateway is typically most suitable for EDI partners with a large number of reports and an existing  
355 local pharmacovigilance database, providing a fully automated way to exchange adverse event and  
356 acknowledgement messages between the locally established pharmacovigilance database of and EDI  
357 partner in the EEA and the Agency.

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<sup>6</sup> [EudraVigilance access policy for medicines for veterinary use | European Medicines Agency \(europa.eu\)](https://www.eudra.europa.eu/medicines/veterinary/eudravigilance/eudravigilance-access-policy-for-medicines-for-veterinary-use)

## 358 **2.1.6. System and testing requirements for gateway organisations**

### 359 **2.1.6.1. Gateway configuration and communication**

360 This section describes the computer software and communication standards used by the gateway.  
361 Senders will be required to adopt hardware, software and data communication configurations to meet  
362 these standards, which are based on the recommendations of VICH.

363 The sender's EDI system must comply with the following standards for the EudraVigilance Veterinary  
364 gateway certification:

- 365 • direct connection via HTTP (AS2)
- 366 • Support for digitally signed MDNs
- 367 • X.509 digital certificate support
- 368 • EDIINT/AS2 compliance certification or interoperability
- 369 • Direct transmittal of XML documents

370 The EMA does not mandate any specific product for the EDI communication. If the sender's product  
371 adheres to the above standards and is fully interoperable with the gateway at the Agency, then the  
372 sender will receive certification from the Agency to use it.

373 Communications between the gateways of the sender and receiver will take place over the internet.  
374 The parties must comply with the full set of the VICH endorsed security standards.

375 EDI partners are responsible for the preparation of adverse event or acknowledgement messages in  
376 full compliance with the requirements detailed in this document

377 EDI partners, at their own expense, maintain the necessary equipment, software, services and testing  
378 to effectively and reliably create, transmit and manage valid adverse event and acknowledgement  
379 messages.

### 380 **2.1.6.2. Testing procedure**

381 To ensure the successful operation of EDI, each new EDI partner who wishes to transmit adverse event  
382 messages electronically via the gateway will undergo a staged test procedure, which includes the  
383 following phases:

- 384 1. **Communication test** to ensure successful gateway to gateway communication. The successful  
385 completion of the communication testing between the EudraVigilance Veterinary and the EDI  
386 Partner will be certified by the Agency so that the EDI partner can move into the subsequent  
387 stages of testing.

388 The process of establishing the connection requires several steps.

- 389 • Document transport choice
- 390 • Exchange of profile information
- 391 • Exchange of public keys for encryption
- 392 • Testing the connection

393 When a successful connection has been established adverse event and acknowledgement  
394 messages can be successfully transferred between the two parties. A list of registered parties will  
395 be maintained and made available by the Agency. Adverse event and acknowledgement message  
396 exchange can only take place between registered parties.

- 397 2. **Development and validation testing** of EDI partners with the EudraVigilance Veterinary test  
398 environment at the discretion of the EDI partner. Once the EDI partner has completed this test

399 phase, they will notify the Agency to move into the XML test phase. Step 2 of the testing is  
400 mandatory for the testing of all EDI partners wishing to exchange data with the Agency.

401 3. **XML test phase** with the submission of sample reports to the EudraVigilance Veterinary test  
402 environment, compliant with the requested specifications: syntax, field lengths, minimum  
403 information and data coding against VICH and other standard terminologies. The successful  
404 completion of the testing between EudraVigilance Veterinary and the EDI partner will be certified  
405 by the Agency so that the EDI partner can move into production.

406 4. **Production phase.** The EDI partners acknowledge the validity of adverse event or  
407 acknowledgement messages.

408 Any technical changes must be communicated immediately in writing between the EDI partners. Major  
409 technical changes may require the re-initiation of one or more test phases as described above.  
410 Organisations should not submit adverse event messages to the production EudraVigilance Veterinary  
411 system until they have completed the testing and have been approved for step 4 as described above.  
412 Organisations do not need to repeat the step 1 communication test if the gateway connection has  
413 previously been tested for AER submissions.

414 Organisations using EVPOST function as described in section 2.1.5.3. need to perform the XML test  
415 phase but do not need to perform the communication test.

416 Organisations using the EVWeb application as described in section 2.1.5.2. do not need to perform any  
417 system testing described in this section.

### 418 **2.1.6.3. XML test phase**

419 The Agency will provide a test script to be followed by the EDI partner and a set of sample files.

420 The EDI partner is expected to upload these sample files into the pharmacovigilance system they are  
421 testing and follow the test script to produce additional test files. Once uploaded, these test files should  
422 be transmitted to the EudraVigilance Veterinary external testing system for review by the Agency.  
423 Unexpected differences between the sample set of VICH files and the information received by the  
424 EudraVigilance Veterinary external testing system will be communicated to the EDI partner as issues  
425 that need to be addressed before allowing the EDI partner to transition into the production phase. The  
426 set of test files sent by the EDI partner should cover a range of different reporting scenarios in order to  
427 ensure the correct implementation of the data fields in accordance with VICH and the additional EU  
428 specific requirements detailed in this document.

429 The sample files and scripts will include the following scenarios:

- 430 • Initial and follow-up
- 431 • Human / animal reports
- 432 • Purebreed / Crossbred
- 433 • Off label use

434 Additional documents will be made available showing which fields in the VICH standard will be covered  
435 by each of these scenarios and provide further guidance on the testing process.

### 436 **2.1.7. Service Level Agreements (SLAs)**

437 The services that the Agency is providing in relation to EudraVigilance Veterinary will be supported and  
438 made available during normal business hours from 9am to 5pm CET Monday through Friday, excluding  
439 public holidays observed by the Agency. The systems will normally be available 24 hours per day and 7  
440 days per week. However, no guarantees of availability or support are provided outside of business

441 hours. Planned non-availability of these services during and outside of business hours will be  
442 communicated to all registered users of the system.

### 443 **2.1.8. System failure procedures**

444 Organisations should ensure that adequate business continuity processes and back-up systems are put  
445 in place to deal with system failures in line with the recommendations given in the relevant guideline  
446 on pharmacovigilance processes and business continuity. The intention should be to ensure that any  
447 system failures should be resolved within a short period of time to ensure that reporting compliance is  
448 maintained.

449 System failures can occur on the sender's side or the receiver's side, details of what organisations  
450 should do in these situations are described in the section below.

#### 451 **2.1.8.1. Failure of adverse event message generation**

452 In case of any mechanical, programme, electronic or communication failure, which prevents an EDI  
453 partner from generating an adverse event message to send to another EDI partner, the issue should  
454 be investigated quickly. If the issue with the system can be resolved without affecting compliance with  
455 pharmacovigilance obligations, the organisation should work on addressing the issue, and no other  
456 actions would be required at this stage.

457 If the issue cannot be resolved within a timeframe allowing continued compliance with  
458 pharmacovigilance obligations, the sending organisation should contact the receiving organisations to  
459 inform them of the issue. They should also include the expected timeframe for when the issue is  
460 expected to be addressed. When the issue has been fixed, the outstanding cases should be transmitted  
461 as quickly as possible.

462 This scenario also applies when an adverse event message concerning (a) valid case(s) which meet(s)  
463 the minimum reporting requirements and can be physically generated and transmitted but where the  
464 adverse event message is acknowledged with a transmission acknowledgement code indicating that  
465 the adverse event message has been rejected in part or in total (transmission acknowledgement code  
466 "AE" or "AR").

### 467 **2.1.9. XML conformance**

468 There are two levels of conformance in the XML specifications: a well-formed and a valid message.

469 1. A **well-formed** message is an XML document that conforms to the structural rules of XML:

- 470 • The first line should be the XML document declaration (see 3.1. for details)
- 471 • The document should contain at least one element (or tag)
- 472 • Every starting tag should have a closing tag
- 473 • <tag/> is also permitted for tags that do not contain data
- 474 • Tags cannot overlap.

475 In order to improve the readability of the XML file, a carriage return should be inserted after each  
476 closing tag e.g. <start tag>Value</end tag> [CR][LF]. CR: carriage return, LF: line feed.

477 In addition, as XML is case sensitive, all the fields and attributes names must be in correct case in  
478 order to comply with the XML schema.

479 2. A **valid** XML file is one which has a schema reference, and which conforms to that schema. The  
480 schema is a document that defines the valid elements (tags), attributes and the order that they

481 may appear in an XML document. It also defines some of the valid content of the XML elements  
482 and attributes. A valid XML file should also be well-formed.

483 Regarding all aspects of XML, the W3C standards<sup>7</sup> should be followed.

484 Further details on the schema reference and encoding for the XML files are provided in section 3.1.

#### 485 **2.1.10. Processing and acknowledgement of receipt of adverse event** 486 **messages**

487 The EudraVigilance Veterinary system performs a basic validation of any incoming adverse event  
488 message against the specified XML schema. The sender is responsible for including the correct adverse  
489 event message XML header as specified in 3.1. In case the sender has not included the correct schema  
490 reference in the XML header as indicated in 3.1. the return of an acknowledgement message cannot be  
491 guaranteed.

492 In case of the detection of a parsing error by EudraVigilance Veterinary, the following scenarios may  
493 occur:

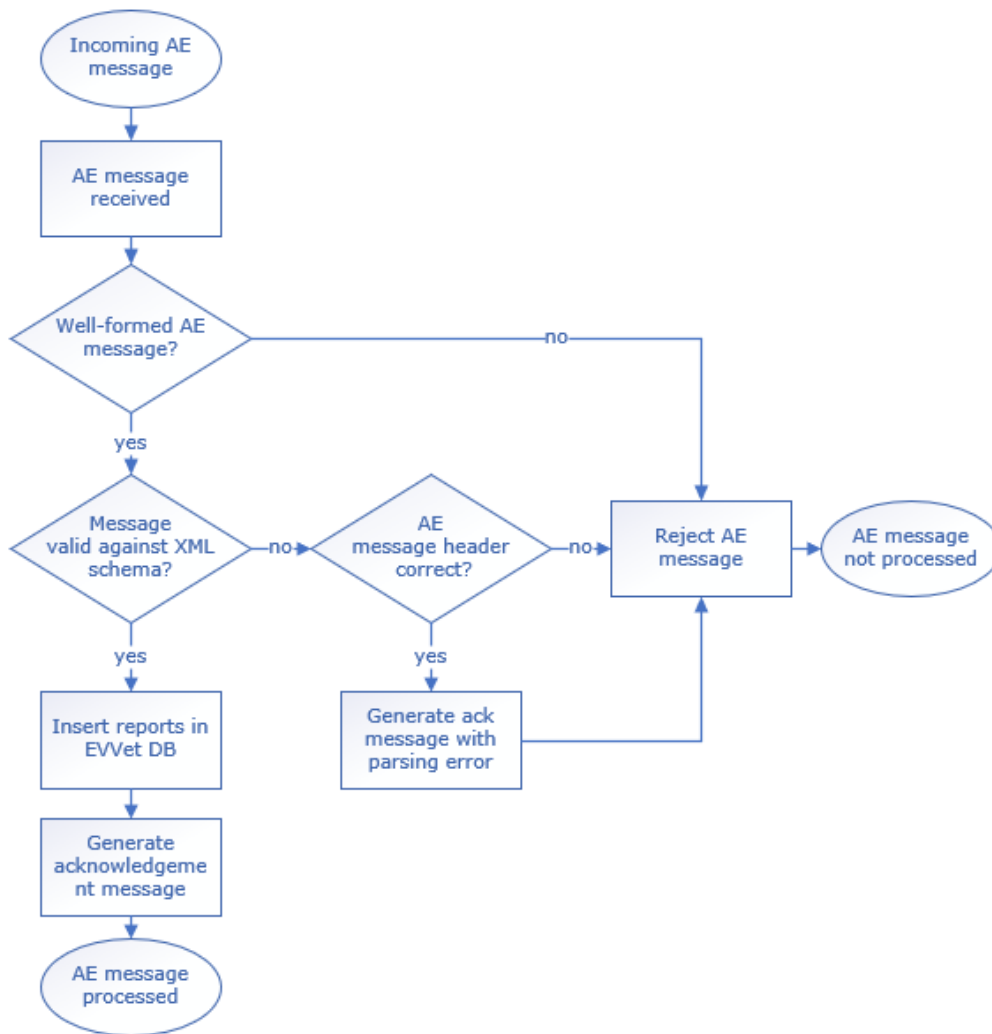
- 494 • If during the parsing process of the adverse event message, EudraVigilance Veterinary can  
495 detect a valid sender identifier, an acknowledgement message will be created and sent to the  
496 sender, listing the detected error. The transmission acknowledgement code reported in the  
497 data element ACK.A.4 will be 'AR' i.e. no data extracted.
- 498 • If during the parsing process of the adverse event message, EudraVigilance Veterinary cannot  
499 detect a valid sender identifier, an acknowledgement message cannot be created, as the  
500 sender cannot be identified. In this case no acknowledgement message will be returned.  
501 Senders of AERs should monitor receipt of acknowledgement messages and, if none is  
502 received after 2 business days, contact the Service Desk using the EMA service desk portal.
- 503 • If the parsing process of the adverse event message is successful and EudraVigilance  
504 Veterinary cannot detect a valid receiver identifier, an acknowledgement message will be  
505 created and sent to the sender, listing the detected error. The transmission acknowledgement  
506 code reported in the data element ACK.A.4 will be 'AR' i.e. no data extracted.

507 If the adverse event message is valid according the adverse event message XML schema validation,  
508 EudraVigilance Veterinary will perform the upload of the adverse event message with the Inbound Load  
509 process.

510 The process flow is described in Figure 2: Inbound Load process. Please read the flowchart in  
511 association with this section.

---

<sup>7</sup> <http://www.w3.org/>



512

513 **Figure 2: Inbound Load process**

514

515 For routine electronic reporting an adverse event message including one or several AERs is sent by the  
 516 report sender in internationally agreed electronic format through an electronic gateway to the report  
 517 receiver (usually EudraVigilance Veterinary), which for the purpose of this guide is an EDI partner as  
 518 defined in the Appendix. The electronic gateway of the report sender encrypts the message and  
 519 dispatches it through the internet. The report receiver’s gateway automatically returns a message  
 520 disposition notification (MDN) upon receipt of the message, decrypts the message and forwards it to  
 521 the report receiver’s locally established pharmacovigilance system. This MDN will be subsequently  
 522 referred to as the AER-MDN.

523 In the report receiver’s locally established pharmacovigilance system the arriving adverse event  
 524 message is processed following the acknowledgement of receipt procedure and a corresponding  
 525 acknowledgement message (AERACK) is returned by the report receiver to the report sender. The  
 526 AERACK will be transmitted from the report receiver's gateway to the report sender's gateway, which  
 527 thereupon automatically returns an MDN upon receipt of the acknowledgement message. This MDN will  
 528 be subsequently referred to as the AERACK-MDN.

529 An adverse event message is successfully recognised and validated when:

- 530 a. The Batch Sender Identifier ID (B.8.1.2) and the Batch Receiver Identifier (B.8.1.3) can be
- 531 correctly identified in the adverse event message. The Sender ID and the Receiver ID must be



532 registered EDI partners of the gateway. In addition, the Batch Sender ID (B.8.1.2) provided  
533 must match the EDI gateway ID that was used to send the file

534 b. The adverse event message is a well-formed and valid XML file

535 c. The adverse event message is in accordance with the VICH XML schema

536 d. The adverse event message and the adverse event reports are in full compliance with the  
537 business rules adopted at EU level, see 4.

538 The EudraVigilance Veterinary system will reject adverse event messages automatically if they are not  
539 in accordance with point a), b) and c). As a result, it is the sole responsibility of the sender to ensure  
540 that the above criteria are fully met so that the adverse event message can be recognised successfully  
541 by the EudraVigilance Veterinary system.

542 An adverse event message is successfully transmitted, when the report sender receives an AER-MDN.  
543 The date of the AER-MDN will serve as the official receipt date of the transmission of the adverse event  
544 message by the gateway and documents the fulfilment of the reporting timelines as defined in EU  
545 legislation.

546 The successful transmission, though fulfilling the requirements of receipt of an AER-MDN, does not  
547 indicate acceptance of the adverse event message by the receiver's locally established  
548 pharmacovigilance system in the acknowledgement of receipt procedure.

549 In this procedure the receiver verifies the semantics, syntax, format and content both on the message  
550 and the report level. The acknowledgement message, as defined by VICH, is generated as further  
551 detailed in section 5. and indicates acceptance or rejection of the message. A rejection in the  
552 acknowledgement of receipt procedure resulting in an acknowledgement code "AR" or "AE" does not  
553 constitute regulatory compliance.

554 The sender of a message that has been rejected by the EudraVigilance Veterinary system in part or in  
555 total has the obligation to resubmit corrected versions immediately within the reporting timelines as  
556 defined in EU legislation, so that the message can be accepted in the locally established  
557 pharmacovigilance system of the receiver. In validated and tested systems and after passing a  
558 production pilot testing, this should rarely occur.

559 The detailed steps in the acknowledgement of receipt procedure are as follows:

560 Following successful receipt of the adverse event message, the report receiver is responsible for  
561 loading the AER(s) into the locally established pharmacovigilance system. The report receiver is  
562 responsible for generating an acknowledgement message, providing the validation status of each AER,  
563 which is the subject of the adverse event message of the transmission.

564 The acknowledgement message can reflect three different types of transmission acknowledgements at  
565 the batch message level:

566 **ACK code AA:** *Application Acknowledgement Accept* (message successfully processed, no  
567 further action)

568 **ACK code AE:** *Application Acknowledgement Error* (error detected, error response has  
569 additional detail, some AER message(s) need further action)

570 **ACK code AR:** *Application Acknowledgement Reject* (parsing error, no data extracted, re-send  
571 the entire transaction)



572 The acknowledgement message can reflect two different types of transmission acknowledgements at  
573 AER message level:

574 **ACK code CA:** *Commit Accept* (the AER message successfully loaded)

575 **ACK code CR:** *Commit Reject* (the AER message contains fatal error that prevents the AER from  
576 being loaded)

577 Details of warnings or errors are found in the acknowledgement details.

578 An AER must be acknowledged by the report receiver with the AER acknowledgement code "CA" when  
579 it is in full compliance with the VICH guidance documents. Thereupon it will be loaded into the report  
580 receiver's locally established pharmacovigilance system.

581 In case the validation status of one or more AER(s) within one adverse event message is assigned the  
582 AER acknowledgement code "CR", resulting in the transmission acknowledgement ACK code "AE" i.e.  
583 AER error, the report sender must retransmit, upon receipt of the acknowledgement message,  
584 immediately a corrected version of the affected AER(s) electronically (ie. not all AERs loaded into the  
585 report receiver's locally established pharmacovigilance database must be retransmitted).

586 If, following the receipt of the acknowledgement message, the transmission acknowledgement code is  
587 "AR" in accordance with the VICH standard, VICH AER implementation guide and EU validation rules,  
588 the entire corrected adverse event message needs to be immediately retransmitted electronically.  
589 adverse event messages with the transmission acknowledgement code "AR" are not regarded as valid  
590 for reporting compliance purposes.

591 The acknowledgement message is sent by the report receiver of an adverse event message to the  
592 report sender of the adverse event message. At the gateway level, an AERACK-MDN will be returned to  
593 the sender of the acknowledgement message.

594 The date of the AERACK-MDN will serve as the official receipt date of the transmission of the  
595 acknowledgement message by the gateway.

596 From a conceptual point of view, the following principles apply:

- 597 • The report receiver of an adverse event message, that requires an acknowledgement, should  
598 not act upon the content of the adverse event message until such an AERACK is sent by the  
599 report receiver and successfully received by the report sender. If an adverse event message is  
600 entirely rejected (transmission acknowledgement code "AR") by the report receiver, the report  
601 receiver of the adverse event message should not act upon the content of the adverse event  
602 message until a corrected version is received and successfully acknowledged with an  
603 acknowledgement code "AA".
- 604 • If an adverse event message contains AER errors leading to a transmission acknowledgement  
605 code "AE", the report receiver of the adverse event message should not act upon the AERs with  
606 the AER acknowledgement code "CR" of this adverse event message until a corrected version  
607 of the AER(s) is received and successfully acknowledged with an AER acknowledgement code  
608 "CA".

609 However, if (a) rejected AER(s) within an adverse event message contain(s) important safety  
610 information, which raise(s) public health concerns, the report receiver in liaison with the report sender  
611 may act upon this AER(s).

612 The same requirements outlined above for the successful recognition of an adverse event message  
613 apply to the acknowledgement message. It is the sole responsibility of the sender of the

614 acknowledgement message to ensure that these criteria are met and that the acknowledgement  
615 message can be recognised and routed successfully by the gateway.

616 In summary, two different levels of acknowledgement are available.

617 One acknowledgement for the transmission of messages via the gateway of the EDI partners is the  
618 message disposition notification (MDN), which is automatically sent upon the receipt of an EDI  
619 Message being either an adverse event or acknowledgement message at the level of the receiver's  
620 gateway without any content verification. This MDN is the proof to the sender that an adverse event  
621 message was received successfully by the receiver and serves as evidence for any reporting timeline  
622 compliance measures as defined in EU legislation, if the adverse event message was successfully  
623 validated and recognised in accordance with the VICH and requirements detailed in this document i.e.  
624 transmission acknowledgement code "AA" and AER acknowledgement code "CA".

625 The second acknowledgement is the acknowledgement message, which summarises the outcome of  
626 the adverse event message and AER validation by the report receiver.

627 If for technical reasons the report receiver does not return an MDN (being either an AER-MDN or an  
628 AERACK-MDN), the process described in section 2.1.8. should be followed.

## 629 **2.2. Rerouting of AERs from EudraVigilance Veterinary to National** 630 **Competent Authorities**

631 EudraVigilance Veterinary will automatically forward copies of the valid AERs received to National  
632 Competent Authorities that have requested to receive them.

633 AERs that have parsing errors and AERs that contain errors resulting in the acknowledgement code  
634 "CR" (Commit Reject) will not be forwarded to NCAs. Original cases received from an NCA will be  
635 excluded from being retransmitted back to the sending NCA.

636 The EudraVigilance Veterinary system will retransmit messages as received, section 2.2. describes the  
637 rules and processes for retransmission of AER messages. NCAs should return acknowledgements for  
638 rerouted AERs within 48 hours of the initial receipt. If no acknowledgement is received within 48 hours,  
639 EudraVigilance Veterinary will automatically resubmit the re-routed AERs. For resubmitted AERs NCAs  
640 should return acknowledgements within 24 hours. EudraVigilance Veterinary will make a maximum of  
641 three attempts to resubmit AERs when no acknowledgement has been returned by an NCA. After the  
642 maximum number of attempts has been reached, the NCA concerned will be contacted by the EMA in  
643 order to understand if the NCA is experiencing technical issues. It should be noted that this retry  
644 functionality will only be available later in 2022.

645 Concerning the rerouting of DEG messages, information is provided in the Appendix under Rerouting of  
646 DEG messages.

### 647 **2.2.1. Rerouting rules for VICH AERs**

648 NCAs will provide and maintain a list of ISO 3166 country codes for which they wish to receive copies  
649 of AERs that have been entered in to EudraVigilance.

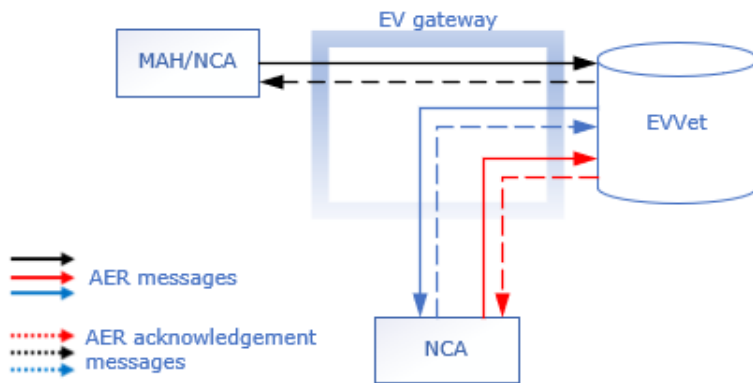
650 The only defined VICH fields that will be changed when retransmitting AERs will be the Batch wrapper  
651 fields as shown below, non-VICH/EU data fields will not be retransmitted.

VICH field code	VICH field description
B.8.1.1	Batch Number

VICH field code	VICH field description
B.8.1.2	Batch Sender Identifier
B.8.1.3	Batch Receiver Identifier
B.8.1.4	Date of Batch Transmission

652 Cases submitted by NCAs to EudraVigilance Veterinary will not be retransmitted back to the sending  
653 NCA, this check will be based on the sending organisation's *Batch Sender Identifier* (B.8.1.2).

- 654 1. A MAH or NCA sends AER(s) in an adverse event message to EudraVigilance Veterinary;
- 655 2. EudraVigilance Veterinary returns an acknowledgement message (ACK) to confirm the receipt of  
656 the adverse event message to the sender.
- 657 3. EudraVigilance Veterinary forwards the AER(s) in an adverse event message to the NCAs that  
658 have requested to receive them.
- 659 4. The NCA sends an acknowledgement message (ACK) to EudraVigilance Veterinary to confirm  
660 the receipt of the adverse event message.



661  
662 **Figure 3: Message exchange**

### 663 3. VICH messages and adverse event reports

#### 664 3.1. Message header

665 The XML message header contains two important references, the first is the text encoding used within  
666 the XML file and the second refers to the location of the schema file that should be used to parse the  
667 XML file to ensure that it is correctly structured.

668 XML files can be submitted with the text encoding formats as provided and as XML snippet shown  
669 below. The VICH Step by Step document recommends the use of UTF-8 as the preferred encoding  
670 format.

Text encoding	XML file header
UTF-8	<?xml version="1.0" encoding="UTF-8"?>
UTF-16	<?xml version="1.0" encoding="UTF-16"?>

671  
672

673 The schema location for VICH AERs is the following:  
674 [http://eudravigilance.ema.europa.eu/xsd/vich/multicacheschemas/MCCI\\_IN200100UV01.xsd](http://eudravigilance.ema.europa.eu/xsd/vich/multicacheschemas/MCCI_IN200100UV01.xsd)

675 The schema location for AER acknowledgements is the following:  
676 [http://eudravigilance.ema.europa.eu/XSD/multicacheschemas/MCCI\\_IN200101UV01.xsd](http://eudravigilance.ema.europa.eu/XSD/multicacheschemas/MCCI_IN200101UV01.xsd)

677 Below is an XML snippet of the header of a VICH AER message showing the text encoding used and the  
678 schema location.

#### 679 **XML Snippet: VICH AER Header**

```
<?xml version="1.0" encoding="UTF-8"?>  
<MCCI_IN200100UV01 ITSVersion="XML_1.0" xsi:schemaLocation="urn:hl7-org:v3  
http://eudravigilance.ema.europa.eu/xsd/vich/multicacheschemas/MCCI\_IN200100UV01.xsd  
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:hl7-org:v3">
```

### 681 **3.1.1. Submission types**

682 When submitting an AER message to EudraVigilance Veterinary, the values accepted in the data  
683 element "Types of Message" (VICH B.4.4.1) in a message batch are one of the following:

No	Report	Description
1	Expedited Report	This is an initial report to be submitted by the MAH or NCA using the information gathered from a primary source (Primary Reporter).
2	Follow-Up Report	This is a report that could be submitted by MAH or NCA subsequent to an initial report, providing additional information or making corrections to the initial report. In all cases this report MUST reference the original Worldwide AER Identification number of the initial report.
3	Nullification Report	This type of report is submitted to nullify an initial report. In all cases this report MUST reference the original Worldwide AER Identification number of the initial report.

684

### 685 **3.1.2. EudraVigilance message receiver identifiers**

686 The table below provides the receiver identifiers that should be used in sending AER messages for  
687 processing by the different EudraVigilance modules.

EudraVigilance system	B.8.1.3 Batch Receiver Identifier	B.8.2.3 Message Receiver Identifier
EVVET external testing environment (XCOMP)	<b>EVVETT</b>	<b>EVVETT</b>
EVVET production environment	<b>EVVETPROD</b>	<b>EVVETPROD</b>

688

## 689 **3.2. Adverse event report**

690 A VICH AER message can contain one or more AERs. Although the VICH standard does not provide a  
691 maximum number of AERs that could be submitted in an AER message, organisations must limit their

692 systems to send no more than 100 AERs per message, as resolving issues in submissions gets more  
 693 complex when more AERs are included in one file. In order for efficient processing of messages in VICH  
 694 format, it is required that the XML file size should be under 20 MB. Files above this size might cause  
 695 potential issues with either parsing the message before sending it or the parsing and loading  
 696 performed by the receiver.

697 Consideration should also be made for the impact on the file size when adding attachments to the  
 698 AERs being submitted. Therefore, organisations are encouraged to make sure that, if scanned images  
 699 or documents are being attached, appropriate scanning resolutions are used for the document in order  
 700 to minimise the file size. Text based PDFs rather than scanned image PDFs are preferred, as this will  
 701 significantly reduce the file size.

702 The sender of the AER should make every effort to reduce the size of an attachment if it is critical that  
 703 it should be submitted with the AER.

### 704 **3.3. Attachments**

705 In order to provide supplemental information, the sender of an AER can attach documents to the AER  
 706 message itself. Attachments are provided as in-line data transmitted using the encapsulated data type.

<b>Document Type</b>	<b>Description</b>
Analysis	Examination and interpretation: the process of identifying an issue to be understood and addressed, modelling the issue, investigating the model results, interpreting the results, and possibly making a recommendation. The concept also refers to the examination.
Article	Nonfictional prose forming an independent part of a publication.
Certificate	A document earned by a person indicating that the person has specific knowledge, skills, or abilities in the view of a certifying body. Similarly, a document indicating that a product or process is suitable or in working order for a specific purpose.
Computer Tomography	Pictures of structures inside the body. In CT scanning, an X-ray machine linked to a computer is used to produce detailed pictures of organs inside the body.
Cytology report	The light microscopic study of normal and abnormal cells in fine needle aspirates (FNAs), body cavity fluids, and smears.
Echocardiogram	An image of the heart produced by ultrasonography.
Histopathology report	The description of cells and tissues made by a pathologist based on microscopic evidence, sometimes used to make a diagnosis of a disease.
Investigation report	The act or process of a systematic and thorough examination, research, study; the process of inquiring into or following up, intended to develop facts.
Labelling Materials	All written, printed, or graphic matter accompanying an article at any time while such article is in interstate commerce or held for sale after shipment or delivery in interstate commerce.

<b>Document Type</b>	<b>Description</b>
Laboratory Report	The outcome of a laboratory test.
Letter	A written message addressed to a person or organization.
Magnetic Resonance Imaging	Imaging that uses radiofrequency waves and a strong magnetic field to provide amazingly clear and detailed pictures of internal organs and tissues. The technique is valuable for the diagnosis of many pathologic conditions, including cancer, heart and vascular disease, stroke, and joint and musculoskeletal disorders inside the body. MRI scans use a large magnet connected to a computer to create pictures of areas inside the body.
Medical Records	A chronological written account of a patient's examination and treatment that includes the patient's medical history and complaints, the physician's physical findings, the results of diagnostic tests and procedures, and medications and therapeutic procedures
Multiple document types	Supplemental document is made up of multiple documents.
Necropsy (Autopsy) report	A post mortem examination of the body that includes an examination of the internal organs and structures after dissection to determine the cause of death and the nature of pathological changes.
Other	The actual value is not an element in the value domain of a variable (e.g. concept not provided by required code system).
Photograph	A visual representation of an object, scene, person or abstraction.
Product Label	Any display of a written, printed, or graphic matter upon the immediate container of any substance or device to identify something and to indicate the nature, ownership, contents and other characteristic particulars of the object.
Promotional Material	Promotional Material Document
QA Report	The operational techniques and activities undertaken within the quality assurance system to verify that the requirements for quality of the trial related activities have been fulfilled.
Radiographs	An image produced on a radiosensitive surface by X-ray radiation that has penetrated and passed through a structure.
Record	Anything (e.g. a document) providing permanent evidence of or information about past events.
Sonogram	Computer picture of areas inside the body created when sound waves bounce off organs and other tissues.
Specification	A detailed description of criteria for a piece of work.

707

708 The case narrative should not be provided as file attachments but inserted in the appropriate field.

709 The table below lists the file formats that are supported in the EU along with the media type that should be provided in the relevant AER field.

710

File type extension	File type	Media Type (values)
PDF	Portable Document Format	application/pdf
JPEG/JPG	Joint Photographic Experts Group	image/jpg
TXT	Text file	text/plain
RTF	Rich text file	text/rtf
TIFF/TIF	Tagged Image File Format	image/tiff
HTML	HyperText Markup Language	text/html
Doc	Word document	application/msword
Docx	Office Open XML (ISO/IEC 29500) wordprocessing	application/vnd.openxmlformats-officedocument.wordprocessingml.document
XLS	Excel document	application/vnd.ms-excel
XLSX	Office Open XML (ISO/IEC 29500) spreadsheet	application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
DICOM	Digital Imaging and Communications in Medicine	application/dicom

711

712 If additional documents are subsequently received by the sender which contain medically relevant  
713 information, a follow-up case containing the additional information should be created and submitted.

714 In order to submit an attachment, the following fields need to be completed in the AER message:

715 1. **B.7.1 Attached document file name:** This is a free text name that identifies the document  
716 that is being attached to the AER. This file document name will be added to the file name  
717 stored in the EV Web database in the following format:  
718 <<AER\_batchSenderId\_batchTransmissionDate\_MessageNumber\_DocumentName\_xxxx  
719 xx.file\_type\_ext>>

720 2. **B.7.1.1: Attached Document Type:** This is a selection from a drop down list of document  
721 types that describes the information in the attached document. The document file type will also  
722 be appended to the file name stored in the EV database stated in B.7.1 above.

723 In addition to the above, please refer to Annex 1: Field level specification for more clarification.

### 724 **3.4. Additional ISO/HL7 VICH data fields for EU regional implementation**

725 This section of the implementation guide highlights information on specific data fields of the VICH GL35  
726 and GL42 guidelines, where special consideration for EU regulations and requirements should be  
727 considered in providing information for AE reporting.

728 **Batch sender personal information:** Due to EU GDPR and personal data protection regulations, all  
729 personal data in the message batch wrapper which are specified as optional in the field listed below  
730 should not be provided.

- 731 1. B.8.1.2.3 Batch Sender - Title
- 732 2. B.8.1.2.4 Batch Sender - Last name
- 733 3. B.8.1.2.5 Batch Sender - First name
- 734 4. B.8.1.2.6 Batch Sender - Telephone
- 735 5. B.8.1.2.7 Batch Sender - Fax
- 736 6. B.8.1.2.8 Batch Sender - E-mail

737 **Message sender personal information:** Due to EU GDPR and personal data protection regulations,  
738 all personal data in the message wrapper which are specified as optional in the field listed below should  
739 not be provided.

- 740 1. B.8.2.2.3 Message Sender - Title
- 741 2. B.8.2.2.4 Message Sender - Last name
- 742 3. B.8.2.2.5 Message Sender - First name
- 743 4. B.8.2.2.6 Message Sender - Telephone
- 744 5. B.8.2.2.7 Message Sender - Fax

745 However, a general e-mail address could be provided for each message in the batch in field "B.8.2.2.8  
746 Message Sender - E-mail" for the purpose of contact for clarification, if and when required.

747 **Primary Reporter information:** Due to EU GDPR and personal data protection regulations, all  
748 personal data in the AER message listed below should be withheld. For the purpose of duplicate  
749 management, some of the fields as detailed below should provide limited information that will enable  
750 easy identification of duplicate reports.

751 Where provided in an AER, all personal information will be stored in the EV database for the following  
752 reason:

- 753 • The MAH and NCA may not have this information stored anywhere else except the  
754 EudraVigilance Veterinary Database
- 755 • This information may be required for follow up reporting and the reporter will need to be able  
756 to access it.

- 757 1. A.3.1.2 Primary Reporter Last name – Include First letter of first and last name + first 2  
758 digits of the post code
- 759 2. A.3.1.3 Primary Reporter First name
- 760 3. A.3.1.4 Primary Reporter Telephone
- 761 4. A.3.1.5 Primary Reporter Fax
- 762 5. A.3.1.6 Primary Reporter E-mail
- 763 6. A.3.1.7 Primary Reporter Business Name
- 764 7. A.3.1.8 Primary Reporter Street address



- 765 8. A.3.1.9 Primary Reporter City  
766 9. A.3.1.10 Primary Reporter State/county code  
767 10. A.3.1.11 Primary Reporter Postal/zip code – However, the following fields are mandatory and  
768 should be provided.  
769 11. A.3.1.1 Primary Reporter Category  
770 12. A.3.1.12 Country code

771 NOTE: The section A.3.2 – Other Reporter is not mandatory. But where provided, this should follow the  
772 same guideline as for the Primary Reporter.

773 **Unique Adverse Event Report Identification:** This field (A.4.1) contains information that uniquely  
774 identifies an AER. MAH should consider the following in the creation of the Unique Adverse Event  
775 Report Identification:

776 MAH should use an existing MAH ID or should generate a new one based on an 8 characters ash from  
777 the Routing ID following the CRC32 example: <https://crccalc.com/>

778 Formation of Unique Adverse Event Report Identification should be as follows:

779 <Country>-<MAHORGID>-<Routing ID><remaining text>

780 Which maps to the structure defined by the VICH as:

781 <OccurCountry>-<OrganisationCode>-<TextString>

782 - Occur Country = 3 character ISO 3166 alpha 3 country code

783 - Organisation Code = 8 character MAH organisation code

784 - Text String = Maximum of 47 character (Routing ID + remaining text)

785 **Seriousness:** In the EU, it has been considered that seriousness, as a metric for adverse event  
786 reporting, should be deprecated. However, the field B.3.6: "Serious AER Reported" (Y/N)? should be  
787 provided for compliance with VICH, although it will not be considered for AER data analysis in the EU.

788 **Previous Exposure to VMP:** In VICH GL35 and GL42, this field B.3.9 Previous Exposure to the VMP  
789 (Y/N)? is linked to the report. However, this field should be linked to the VMP and hence in all AER  
790 messages each added VMP should have "Previous Exposure to VMP" associated.

791 **Previous AE to VMP:** In VICH GL35 and GL42, this field B.3.10 Previous AE to VMP (Y/N?) is linked to  
792 the report. However, this field should be linked to the VMP and hence in all AER messages each added  
793 VMP should have "Previous AE to VMP" associated.

794 **De-challenge and Re-challenge:** In VICH GL35 and GL42, the following fields B.4.1 - Did AE Abate  
795 After Stopping the VMP? and B.4.2 - Did AE Reappear "After Re-introduction of the VMP?" are linked to  
796 the report. However, these fields should be linked to the VMP and hence in all AER messages each  
797 added VMP should have "Did AE Abate after Stopping the VMP?" and "Did AE Reappear After Re-  
798 introduction of the VMP?" associated.

### 799 **3.4.1. Integration with Union Product Database (UPD)**

800 The Union Product Database (UPD) is the data source for all Veterinary Medicinal Products (VMP) and  
801 active substances for centrally and nationally authorised products.

802 For enhanced data quality and to reduce the amount of effort required for recoding, AE reporters  
803 should endeavour to link their AERs to products and active substances contained in the UPD. However,  
804 in circumstances where the VMP cannot be specifically identified from the UPD, AERs should still be  
805 submitted.

806 When an AER is linked to a VMP from the UPD, product related information should also be linked to  
807 further enhance the quality of product data submitted. These include:

- 808 • Product Code – VICH B2.1.1
- 809 • Registration Identifier (Product Registration Number) – VICH B2.1.2
- 810 • Anatomical Therapeutic Chemical Vet Code (ATC VET Code) – VICH B.2.1.3
- 811 • Company or Marketing Authorisation Holder (MAH) – VICH B.2.1.4
- 812 • Active Ingredient(s) – B.2.2.1. Also note that when the product is not known, the AER could be  
813 reported with just this information.

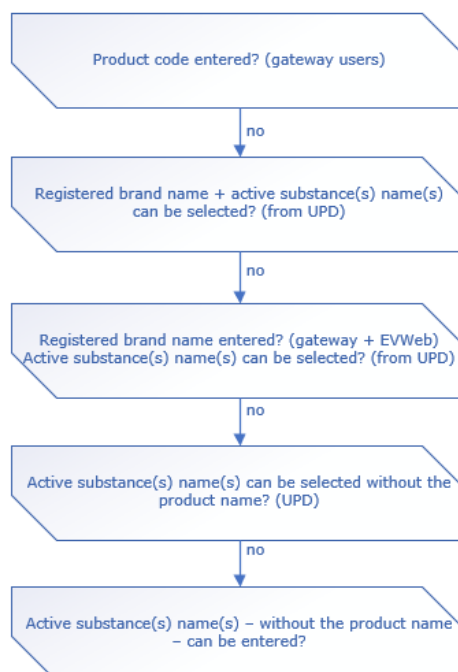
### 814 3.4.1.1. Veterinary Medicinal Product Code (VMP)

815 **Product Code (VICH B.2.1.1):** The veterinary medicinal product (VMP) code uniquely identifies the  
816 medicinal product. For EV Web users, this is associated with the product name selected from the UPD.  
817 For gateway users, transmission of this code will help in uniquely identifying the product associated  
818 with the AER.

### 819 3.4.1.2. Decision flow diagram for entering Medicinal Product Information

820 The decision tree provided below should be used for entering veterinary medicinal product information.  
821 The product name as reported by the primary source is a mandatory field, the sender of AERs should  
822 attempt to use VMPs from UPD where available and if appropriate, provide structured name parts.

823 If the sender can answer 'yes' to a question listed in the diagram below, this is the information that  
824 should be provided in the AER message in addition to the product name as provided by the primary  
825 source. If the answer is 'no' then the sender should progress to the next question as shown below.



826

827 **3.5. VeDDRA Version control**

828 A new release version of VeDDRA should become the reporting version on the first Monday of the  
829 second month after it is released. To synchronize this event over the VICH regions, the MSSO  
830 recommends midnight GMT, Sunday to Monday, for the switchover, as an example.

831 The stated change over date and time need to be adhered to consistently by all stakeholders to avoid  
832 any disruptions with regards to the electronic exchange of VICHs. VeDDRA subscribers who are able to  
833 quickly update and validate their systems with each release of VeDDRA should recognise that if they  
834 submit AERs using the updated VeDDRA version prior to the receiving party, which has not switched to  
835 the updated version, the transmitted VICHs will be rejected. Please see section 4.1. for additional  
836 information on VeDDRA versioning.

837 **4. Business rules for AER message processing**

838 The business rules for VICH data fields validation and XML message validity, including the error and  
839 warning messages that should be displayed if there is a failure, can be found in Annex 2: Business  
840 Rules.

841 Further clarification and guidance on how to construct each data field in an VICH XML message,  
842 including snippets for each field, can also be found in Annex 1: Field level specification.

843 **4.1. Business rules notes**

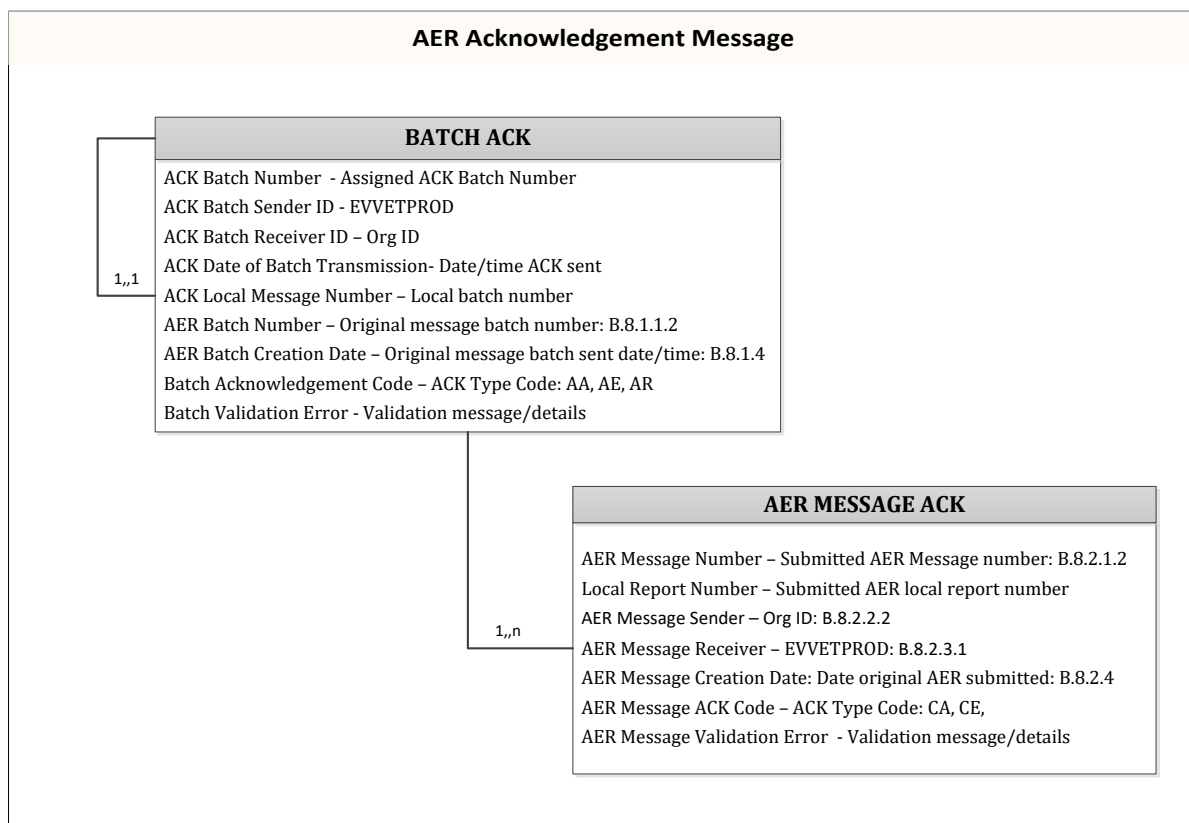
844 The table below provides additional information on some of the business rules that give specific context  
845 to some elements of VICH XML message.

#	Note	Description
1.	<b>VeDDRA Version</b>	<p>The supported VeDDRA versions are related to the EV environment (EV compliance testing environment or production environment) that is the recipient of the AE report transmission.</p> <p>It also relates to the current VeDDRA version officially published on the EMA corporate website. The EV compliance testing environment supports VeDDRA version 4.0 and higher. The EV production environment supports the previous and the current VeDDRA versions. It should also be noted that a new version of VeDDRA is released on 01/10 (first of October) each year. The last two approved versions can be used. This will be the version for the current year version and the version for the previous year considering that the calendar is 01/10 to 30/09.</p> <p>The validation process of the AERs accepts only current lower level term (LLT) numeric codes of the supported VeDDRA versions. All stakeholders should follow the recommendations in guidance regarding the switch to a new VeDDRA version. The use of non-valid or non-current numeric VeDDRA LLT codes generates an error message in the validation process.</p>
2.	<b>Dates &amp; Time</b>	<p>No date/time value should exceed the current CET time plus 12 hours. Failure of the validation of the date format generates an error.</p> <p>All dates should be inferior or equal to the EudraVigilance Gateway date plus 12 hours. Failure of this validation generates an error.</p>

#	Note	Description
		<p>A minimum date of the year 1900 applies to all date/time fields.</p> <p>Provision of time zone offsets are expressed in the following formats:  "CCYYMMDDhhmmss[+/-ZZzz]" or "CCYYMMDDhhmmss[+/-ZZ]"</p> <p>The ZZ (uppercase) is for the Hour offset and zz (lowercase) are for minute offsets. The lowercase minute offsets do not need to be provided if the offset is in units of an hour, therefore the following examples will be treated as the same however the leading zero should be included:</p> <p>-6  -06  -0600</p>
3.	<b>Batch Receiver Identifier and Message Receiver Identifier</b>	<p>When submitting an AE report to EudraVigilance, the value accepted in the data element <i>Batch Receiver Identifier</i> (VICH B.8.1.3) and <i>Message Receiver Identifier</i> (VICH B.8.2.3.1) should be one of the following, depending on to which module the message is addressed:</p> <ul style="list-style-type: none"> <li>• `EVVETT` (Test environment – XCOMP)</li> <li>• `EVVETPROD` (Production environment – EVPM)</li> </ul>
4.	<b>Report nullification</b>	<p>Details on the nullification process and specific rules are provided in section 6.1.1.</p>
5	<b>AER within the same batch</b>	<p>The Unique Adverse Event Report Identification Number cannot be repeated for separate AERs within the same batch.</p>

## 846 5. AER acknowledgement messages

847 The acknowledgement message is an integral part of the exchange of VICH AER messages. The  
848 message model for an acknowledgement message is shown below. The sections below the model  
849 explain how acknowledgment messages are generated by the EudraVigilance system, and in particular  
850 how error messages are generated when AERs do not fulfil the business rule requirements.



851  
852 **Figure 4: ACK message model**

853 **5.1. Acknowledgement batch level elements**

854 The data element *Transmission Acknowledgement Code* (AER ACK.A.4) is a field that informs the  
855 sender of the AER message to either re-send the complete transmission, review the acknowledgments  
856 of individual AERs within the message or that no further action is required.

857 The possible Transmission Acknowledgement Code values are:

858 **AA** – Application Acknowledgement Accept (message successfully processed, no further action)

859 **AE** – Application Acknowledgement Error (error detected, error response has additional detail,  
860 some AER message(s) need further action)

861 **AR** – Application Acknowledgement Reject (parsing error, no data extracted, re-send the entire  
862 transaction)

863 **5.2. Parsing error**

864 The *Batch Validation Error* data element (AER ACK.A.5) is a text field (250 characters) and it is  
865 included in the Acknowledgement Message only if the data *Transmission Acknowledgement Code* (AER  
866 ACK.A.4) has the value "AR": i.e. XML parsing error, no data extracted. This field describes the error  
867 generated by the EudraVigilance XML parser or from the cardinality checks described below.

868 **5.2.1. AER message cardinality checks – pre-validation before loading**

869 In accordance with VICH specifications (logical model) certain sections should appear only once, e.g.  
870 B.3 Adverse Event Data section. The ISO VICH schema is flexible and does not prevent some sections  
871 from being repeated. Therefore, the EV message processing system performs cardinality checks to

872 ensure that non-repeatable sections are not repeated within a message. If such inconsistencies are  
873 detected the AER message is rejected with an "AR" acknowledgement.

874 Please refer to Annex 1: Field level specification for more detailed explanations.

### 875 **5.3. Acknowledgement message level elements**

876 The data element *Acknowledgement Code* for an AER Message (AER ACK.B.r.6) is a field that informs  
877 the sender of the status of each AER within a batch and if the AER needs to be corrected and resent.

878 The possible Acknowledgement Codes values for an AER are:

879 **CA** – Commit Accept (the AER message successfully loaded; no further action required)

880 **CR** – Commit Reject (the AER message contains a fatal error that prevents the AER from being  
881 loaded, the AER needs to be corrected and resent)

### 882 **5.4. Acknowledgement message**

883 The data element *Error / Warning Message or Comment* (AER ACK.B.r.7) appears in the section ACK.B  
884 *AER message acknowledgement*, which is provided for each AER included in the batch. This field is  
885 250AN in the VICH Step by Step document, however, to allow for additional information to be provided  
886 by senders of AERs on the issues identified in transmissions, the field is extended to 2000AN in the EU.

- 887
- 888 • If the value for the data element *Acknowledgement Code for an AER Message* (AER ACK.B.r.6)  
889 is "CR" (Commit Reject) there are one or more errors in the AER and not all the data have  
890 been loaded successfully. In the data element *Error / Warning Message or Comment* (AER  
891 ACK.B.r.7) the errors and warnings encountered during the validation processes of the AER are  
892 described. After this, the system adds the classification outcome for the analysed AERs.
  - 893 • If the value for the data element value for the data element *Acknowledgement Code for a AER*  
894 *Message* (AER ACK.B.r.6) is "CA" (Commit Accept) the corresponding AER is loaded  
895 successfully and in the data element *Error / Warning Message or Comment* (AER ACK.B.r.7)  
896 the classification result is presented. In case the validation processes of the AER have detected  
897 warnings, their textual description is included in the data element *Error / Warning Message or*  
*Comment* (AER ACK.B.r.7).

898 The business rules are also published as two Excel files on the EudraVigilance section of the Agency  
899 website. One of the Excels provides an overview of the business rules and the second one provides a  
900 list of all the business rules and the parameters that they use. The business rule number is also  
901 provided in the detailed rules list and this number will be referenced in the acknowledgement message  
902 if the rule is triggered.

#### 903 **5.4.1. Acknowledgement message for valid report**

904 The XML snippet below shows an example of an acknowledgement message comment for a valid report  
905 without errors.

```
<acknowledgementDetail>  
  <text>safety report loaded; Validated against 1.1 business rules;  
  Comments: Parsing process: Parsing process: Correct Report; Classification: new: EU-EC -  
  123202 = Case Report - old: EU-EC -123174 = Replaced Report </text>  
</acknowledgementDetail>
```

906

907 The table below shows the structure of the *acknowledgement message* (VICH ACK.B.r.7) as produced  
 908 by the EudraVigilance system. It also includes an example of the text that would be produced for a  
 909 valid submission as shown in the XML snippet above.

Section	Error message comment section	Example
1	<b>Loading &amp; Validation Information:</b> 1. AER loaded 2. AER not loaded Validated against <current business rules>	<i>AER loaded; Validated against 1.1 business rules;</i>
2	<b>Error and Warning List (May not be present)</b>	<i>Comments:</i>
3	<b>Error/Warning Element(s)</b>	
4	<b>Parsing Information:</b> Correct Report Report with Warnings Report with Errors	Parsing process: Correct Report;
5	<b>Classification information:</b> See section <b>Error! Reference source not found.</b> AER Classification for details	Classification:
6	<b>Current Report Classification:</b> Displays the Unique Adverse Event Report Identification Number and the classification outcome	new: EU-EC -123202 = Case Report -
7	<b>Old Report Classification:</b> Displays the Unique Adverse Event Report Identification Number which was previously stored in the system, and the reclassification status of the previously stored report.	old: EU-EC -123174 = Replaced Report

910

#### 911 **5.4.2. Acknowledgement message for non-valid report**

912 The XML snippet below shows an example of an acknowledgement message for a non-valid report.

```

<acknowledgementDetail>
  <text>safety report not loaded; Validated against 1.1 business rules;
  Comments:1- [101] :In section Drug(s) on field Medicinal Product Identifier (MPID) VICH
  G.k.2.1.1b) Value: '837336' Reported error BUSINESSRULES – LOOKUP CheckMPID '837336'
  must be a valid MPID code; Parsing process:
  Report with Errors </text>
</acknowledgementDetail>
  
```

913

914 The table below shows how the system structures section 3 of 8 above (Error/Warning Element(s)). It  
 915 also includes a breakdown of the example text shown in the XML snippet above.

Section	Error/Warning Element(s)	Example
a	A sequence number for each rule triggered is followed by the business rule number in square brackets that has been triggered	1- [R101]
b	The section in which there is the wrong element	In section DRUG(s)
c	The element name to which the warning/error is referring to	on field Registered Name or Brand Name (VMPID) (VICH B.2.1)
d	The element value to which the warning/error is referring to	Value: 837336
e	Describes if the comment reported is referring to an error or a warning	Reported error
f	The class of error/warning that it is reported	BUSINESSRULES – LOOKUP
g	A more detailed textual description of the warning/error	CheckMPID 837336 must be a valid MPID code;

916

### 917 5.4.3. Field level errors

918 Please reference Annex 2: Business rules for additional explanations.

### 919 5.4.4. Field pair error description

920 The Table below provides details on the field pair error descriptions that can be found in section “g” of  
921 the error/warning element(s) that can be seen the table above.

Field Level error	Error description	Comment format
Element Null Error	When the element must be null, as the value of another corresponding element requires this.	<i>Since the element &lt;e.g. Regulatory Authority - VICH A.1 has a value the element &lt; e.g. Marketing Authorisation Holder - VICH A.2.&gt; cannot contain a value.</i>
Element Value required	The element value must be specified, as the value of another element requires it. This error is signalled when a VedDRA term has been specified but the corresponding VedDRA version field has been left empty.	Since the element < B.1.8.2 – Minimum Weight> has a value, the element < B.1.8.2.1 - Minimum Weight Unit> must contain a value.

### 922 5.4.5. Section level error description

923 The table below provides details on the section level errors descriptions, that can be found in section  
924 “g” of the error/warning element(s), that can be seen above. These errors occur where multiple



925 instances of the same section are used within the same report or where errors do not pertain to a  
 926 single field.

Field Level error	Error description	Comment format
At Least One Error	If one element between n-elements must be present, but no element is specified.	At least one field must be populated in this section e.g. " B.3.2 – AER Term and Code" cannot be empty.
At Most One Error	If at most one element can be present, but there is more than one element specified.	<i>This element can only contain one value: e.g. A.3.1.1 - Primary Reporter Country</i>
At Least One Section Field Value Error	The element value must be present with a specific value given in at least one of the repeated sections.  This error is generated when one section must have information provided for at least one data element.	The value for one product in B.2.1 - Registered or Brand Name must be provided in the repeated section B.2 – VMP Data and Usage.

927 **6. AER classification**

928 <<AER classification is currently in discussion and this section will be updated once this has  
 929 been concluded>>

930 **6.1. Classification algorithm**

931 **6.1.1. Nullification reports**

932 **6.1.2. Master cases**

933 **6.1.3. Case clustering**

934 **6.2. Recoding of veterinary medicinal product information**

935 **Annexes**

936 ***Annex 1: Field level specification***

937 ***Annex 2: Business rules***

938

## 939 **Appendix**

### 940 ***Electronic Data Interchange Definitions***

941 The definitions that are described in this chapter are the general definitions used in this document for  
942 Electronic Data Interchange.

943 Selected terminology as defined in the frame of the International Council on Harmonisation of  
944 Technical Requirements for Registration of Pharmaceuticals for Veterinary Use has been included with  
945 particular emphasis on the type of format (XML), information (reports) and messages (safety and  
946 acknowledgement messages) used in the EDI process in the area of pharmacovigilance in the post-  
947 authorisation phase. As there are different types of acknowledgement of receipt of an EDI message, it  
948 is clearly indicated which level of acknowledgement is referred to, in order to avoid confusion.

949 For the purpose of this Note for Guidance, the following terms are defined as:

#### 950 **EDI:**

951 Electronic Data Interchange is the electronic transfer, from computer to computer, of commercial and  
952 administrative data using an agreed standard to structure an EDI message. EDI is based on the use of  
953 structured and coded messages, the main characteristic of which is their ability to be processed by  
954 computers and transmitted automatically and without ambiguity. This makes EDI specific in  
955 comparison with other data exchange such as electronic mail.

#### 956 **EDI Message:**

957 An EDI Message consists of a set of segments, structured using an agreed standard, prepared in a  
958 computer readable format and capable of being automatically and unambiguously processed.

#### 959 **Gateway:**

960 A Gateway is defined as a data exchange service, which consists of all core standards and functionality  
961 required for supporting the standards of the International Council on Harmonisation of Technical  
962 Requirements for Registration of Pharmaceuticals for Veterinary Use (VICH) (e.g. Simple Mail Transfer  
963 Protocol/Secure Multipurpose Internet Mail Extension -SMTP/SMIME- protocol).

#### 964 **Message Disposition Notification (MDN):**

965 The MDN is a notification on the receipt of an EDI Message returned by the Receiver's Gateway to the  
966 Sender's Gateway. The MDN concludes a Message Transaction performed between two parties in a  
967 Gateway to Gateway communication.

#### 968 **EDI Partner:**

969 An organisation exchanging EDI Messages in the area of pharmacovigilance in the pre- and post-  
970 authorisation phase with another organisation. For the purpose of this Note for Guidance EDI partners  
971 in the pre- and post-authorisation phase in pharmacovigilance are as follows:

- 972 • Competent Authorities in the EEA
- 973 • Marketing Authorisation Holders in the EEA

#### 974 **Sender:**

975 The Sender is the person or entity creating an EDI Message for transmission.

#### 976 **Receiver:**

977 The Receiver is the intended recipient of the EDI Message.

#### 978 **Report Sender:**

979 The Report Sender is the person or entity creating an AE message as EDI Message in order to submit  
980 an Adverse Event Report, which for the purpose of this Note for Guidance is an EDI Partner. In the  
981 Report Transaction the Report Sender will always remain the same, whereas with the exchange of  
982 messages the "Sender" and "Receiver" roles will change (see graph in Annex I).

983 **Report Receiver:**

984 The Receiver is the intended recipient of the transmission of a Safety Message, which for the purpose  
985 of this Note for Guidance is an EDI Partner

986 **Sender Identifier (Sender ID):**

987 The Sender Identifier is the identification (ID) or combined EDI qualifier and ID of the Sender.

988 **Receiver Identifier (Receiver ID):**

989 The Receiver Identifier is the identification or combined EDI qualifier and ID of the recipient.

990 **Message Transaction:**

991 A Message Transaction is a set of actions encompassing the electronic transmission of an EDI Message  
992 (Adverse Event or Acknowledgement Message,) between a Sender and a Receiver including the return  
993 of the Message Disposition Notification for that message.

994 **Adverse Event Message:**

995 An AE message is an EDI Message including the information provided for one/more Adverse Event  
996 Reports contained in one Safety File exchanged between one Sender and one Receiver in one Message  
997 Transaction.

998 **Safety File:**

999 The Safety File is the electronic file transmitted in one Message Transaction between one Sender and  
1000 one Receiver containing one Adverse Event Message.

1001 **Individual Case:**

1002 An Individual Case is the information provided by a primary source to describe suspected adverse  
1003 event(s)/suspected unexpected adverse events related to the administration of one or more medicinal  
1004 products

1005 **Adverse Event Report (AER):**

1006 An Adverse Event Report is a report providing the most complete information related to an Individual  
1007 Case at a certain point of time.

1008 **Acknowledgement of Receipt:**

1009 The Acknowledgement of Receipt is the procedure by which on receipt of the Adverse Event Message  
1010 the syntax and semantics are checked.

1011 **Acknowledgement Message (AER ACK):**

1012 The Acknowledgement Message is an EDI Message with the information on the result of the  
1013 Acknowledgement of Receipt procedure to acknowledge the receipt of one or several AE Report(s)  
1014 contained in the same message.

1015 **Report Transaction:**

1016 A Report Transaction is the complete set of actions in the electronic reporting of Adverse Event  
1017 Messages to comply with regulatory requirements which routinely include the following:

- 1018 • Creation of an AE Message;
- 1019 • Transmission of the AE Message to the Report Receiver;
- 1020 • On receipt of the AE Report by the Receiver's Gateway return of an MDN;
- 1021 • This MDN will be referred to as AER-MDN;
- 1022 • The AER-MDN is received and stored by the Report Sender to document the success of the AE
- 1023 Report transmission;
- 1024 • The AE Report is subjected to the Acknowledgement of Receipt procedure by the Report
- 1025 Receiver;
- 1026 • The Acknowledgement Message is created;
- 1027 • The Acknowledgement Message is returned to the Report Sender (technically the Report
- 1028 Receiver is a Message Sender for this part of the transaction);
- 1029 • On receipt of the Acknowledgement Message by the Report Sender's Gateway return of an
- 1030 MDN;
- 1031 • This MDN is referred to as AERACK-MDN;
- 1032 • The AERACK-MDN is received and stored by the Report Receiver to document the successful
- 1033 transmission of the Acknowledgement Message;
- 1034 • The Acknowledgement Message is evaluated to document the success of the Report
- 1035 Transaction.

1036 **Competent Authorities:**

1037 An authority within the EEA including the EMA and the European Commission responsible for the  
1038 granting of marketing authorisations for medicinal products and the supervision of marketing of such  
1039 products in accordance with the relevant laws and regulations established under EU law.

1040 **Marketing Authorisation Holders:**

1041 All Marketing Authorisation Holders (MAHs) holding a valid marketing authorisation for a medicinal  
1042 product in the EEA including any part thereof, independent of the authorisation procedure of this  
1043 medicinal product.

1044 **XML:**

1045 Extensible Mark-up Language (XML) is a subset of the International Standard (ISO 8879) called  
1046 Standard Generalized Mark-up Language (SGML)

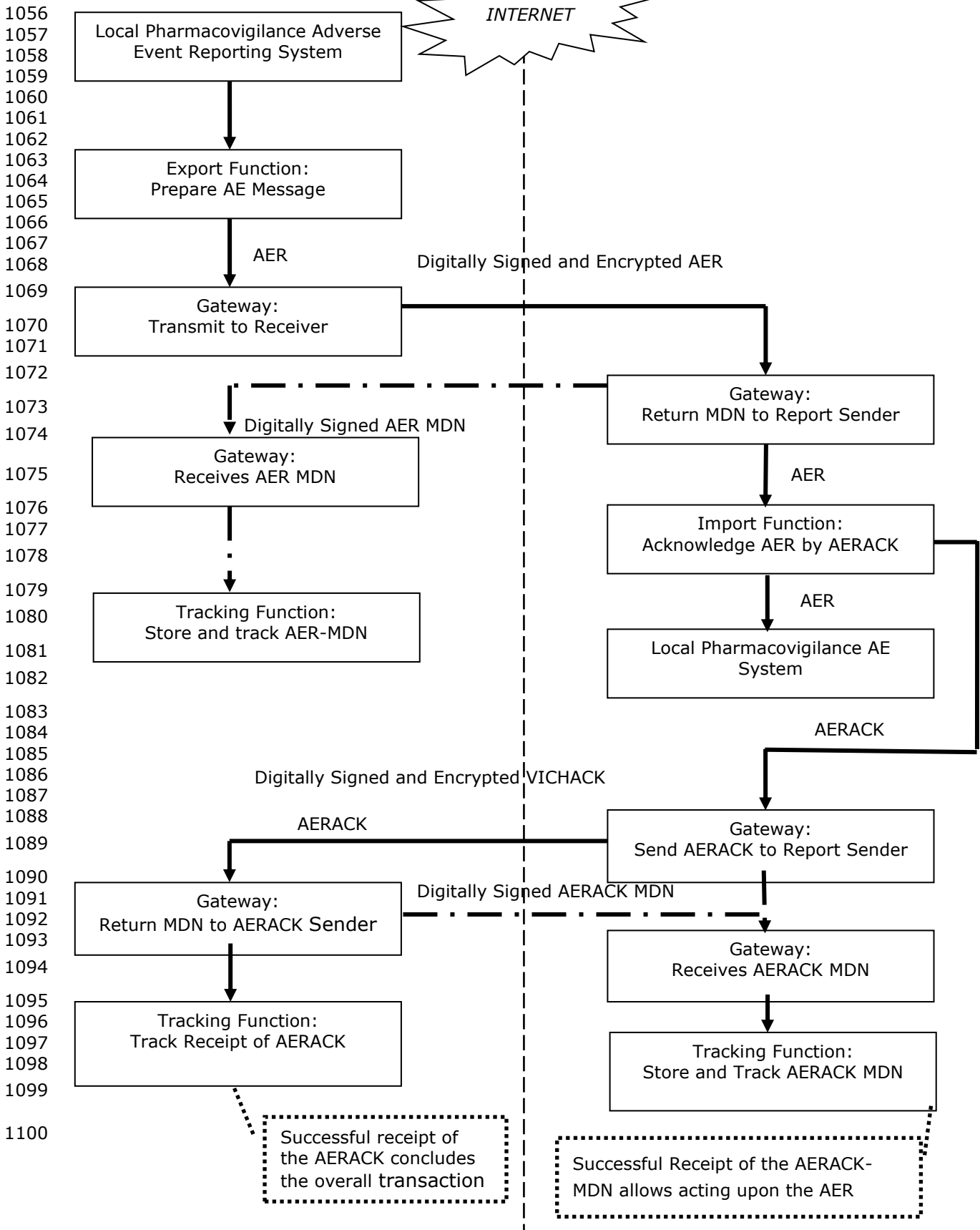
1047 **The Gateway:**

1048 The Gateway is the data-processing network as defined in the EU legislation and is providing a single  
1049 point of contact between MAHs and Competent Authorities in the EEA. By doing so, the Gateway is  
1050 considered a hub and all connections to the EDI Partners are known as spokes. Safety and  
1051 Acknowledgement Messages are routed through the hub to the desired spoke.

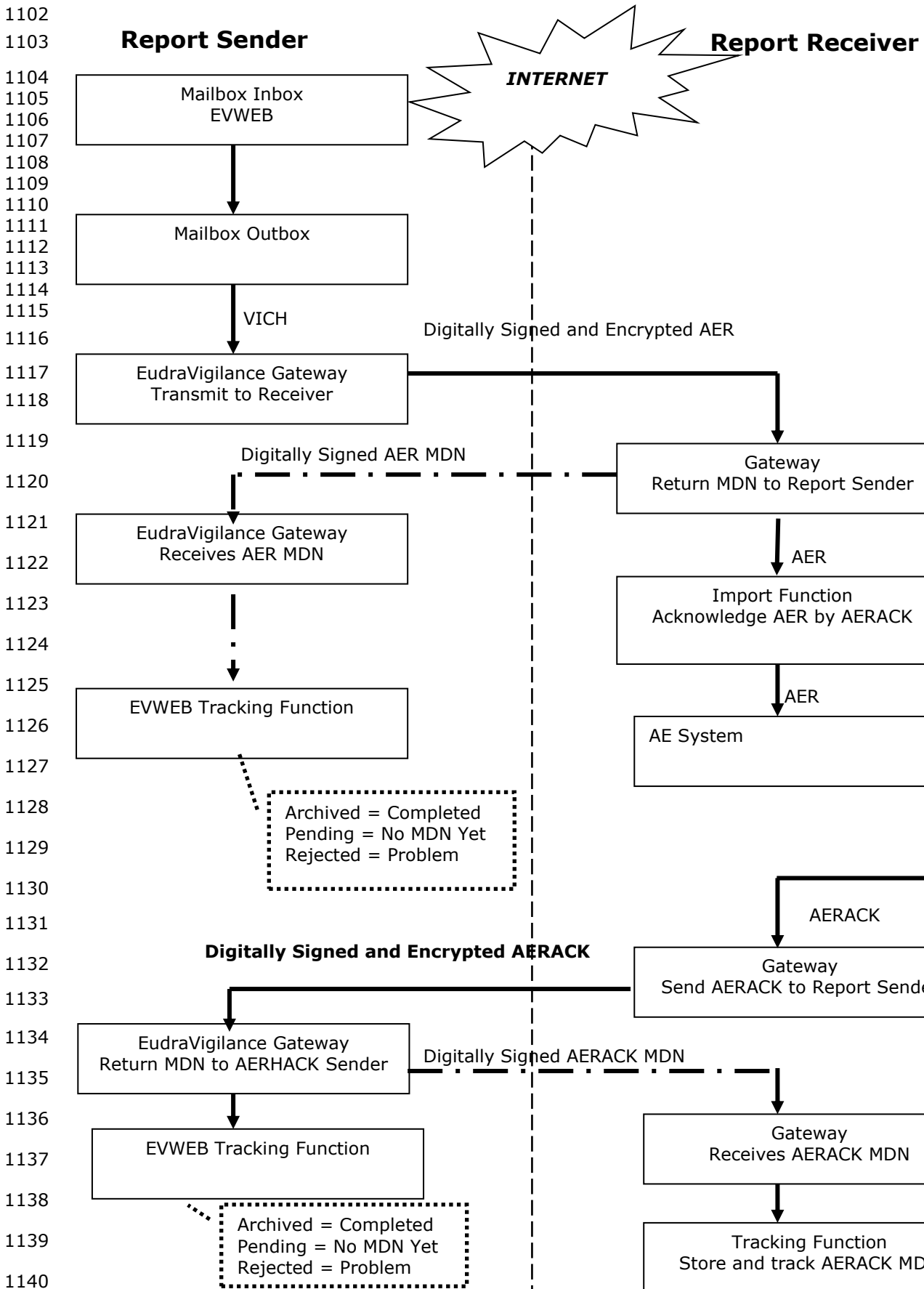
1052

1053 **Schema of AE report transactions using gateway**

1054 **Report Sender** **Report Receiver**



1101 **Schema of AE report transactions using EVWeb**



## 1141 **Rerouting of DEG messages**

1142 The AER format forwarded on to National Competent Authorities (NCAs) will be the same as the  
1143 original format received.

## 1144 **Rerouting timeframes for DEG Messages**

1145 The following technical aspects will apply to DEG messages received by the EMA that are required to be  
1146 forwarded to concerned NCAs:

1147 The EMA will automatically forward on, without delay, copies of the valid AERs received into  
1148 EudraVigilance Veterinary to National Competent Authorities that have requested to receive them.  
1149 AERs that have parsing errors and AERs that contain errors resulting in the DEG AER Acknowledgement  
1150 Code CR.02” will not be forwarded to NCAs. Original cases received from an NCA will be excluded from  
1151 being retransmitted back to the sending NCA.

1152 Save for periods of planned downtime of the EudraVigilance system the following timeframes will apply  
1153 to the forwarding of valid AERs:

- 1154 • 95% of valid AERs will be re-routed to the relevant NCAs within 12 hours of receipt by the EV  
1155 Gateway
- 1156 • 99% of valid AERs received during EMA office hours will be re-routed to the relevant NCAs  
1157 within 24 hours of receipt by the EV Gateway
- 1158 • 99.9% of valid AERs will be re-routed to the relevant NCAs within 48 hours of receipt by the EV  
1159 Gateway

1160 NCAs should return acknowledgements for rerouted AERs within 48 hours of the initial receipt. If no  
1161 acknowledgement is received within 48 hours, EudraVigilance Veterinary will automatically resubmit  
1162 the re-routed AERs. For resubmitted AERs NCAs should return acknowledgements within 24 hours.  
1163 EudraVigilance Veterinary will make a maximum of three attempts to resubmit AERs when no  
1164 acknowledgement has been returned by an NCA. After the maximum number of attempts has been  
1165 reached the NCA concerned will be contact by the EMA in order to understand if the NCA is  
1166 experiencing technical issues. It should however be noted that this functionality will only be available  
1167 late in 2022.

## 1168 **Rerouting rules for DEG AERs**

1169 NCAs will provide and maintain a list of ISO 3166 country codes for which they wish to receive copies  
1170 of AERs that have been submitted into EudraVigilance Veterinary.

1171 The DEG field *Occur Country* (R.11) will be used to identify the National Competent Authority  
1172 requesting that AER in accordance with the list of ISO 3166 country codes described above.

1173 The fields that will be changed when retransmitting AERs are shown in the table below. The Message  
1174 type (M.1.1) for the retransmission of AERs as received from the sending organisation will be “AER”.

1175 **Table 15 - Fields changed upon retransmission**

DEG field code	AER field Description	Notes
M.1.4	Message Number	
M.1.5	Message Sender Identifier	Will be set to “EVVET”



DEG field code	AER field Description	Notes
M.1.6	Message Receiver Identifier	Will be set to the receiving NCA gateway identifier
M.1.7b	Message date	
A.3.1.2	Sender Identifier	Will be set to the Message sender Identifier (M.1.5) of the AER message as received by EudraVigilance

1176 Cases submitted by NCAs to EudraVigilance will not be retransmitted back to the sending NCA, this  
1177 check will be based on the sending organisation's *Message Sender Identifier* (M.1.5).