



## CESSP Phase 1 – status update

Webinar for Industry - 07 May 2019







# Agenda

- 1) Welcome and objectives Georg Neuwirther
- 2) Essentials, Project status and milestones Georg Neuwirther
- Scope of the project
- Process changes (or not changes)
- Status
- Rollout Plan and Risks
- 3) Information about UAT#3 Anne-Christine Lantin, Jeroen Veen, Gary Wilson, Jose Simarro
- The process of publication / invitation
- Timeframe
- Scope
- 4) XSD upgrade Jose Simarro
- Motivation
- Changes
- Examples
- 5) Demonstration of new application interface Gary Wilson
- 6) Q&A Kristiina Puusaari

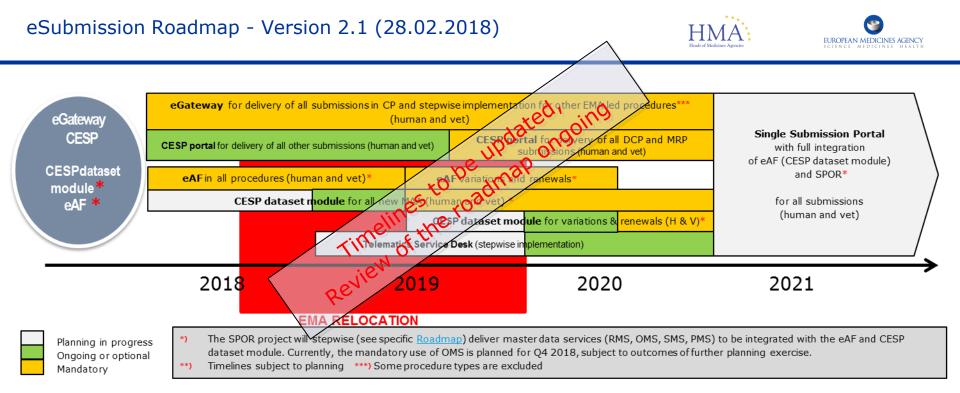




# 1) Welcome and objectives

- Essentials
- Update on project status, relevant information and next steps
- Time for questions after each part / please use the question pod
  - Post webinar note: The CESSP Q&A document will be updated to reflect questions received during the webinar

For information: a similar webinar will be organised for regulators in June 2019

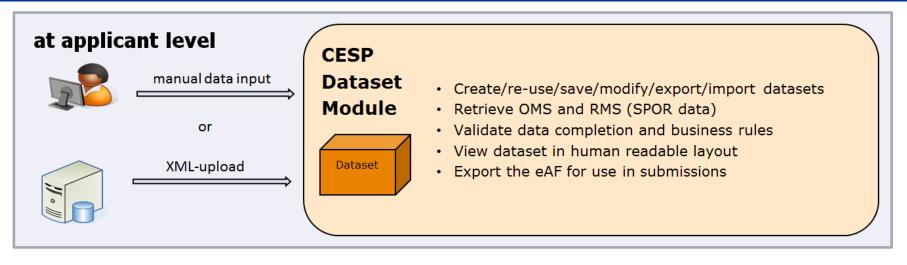


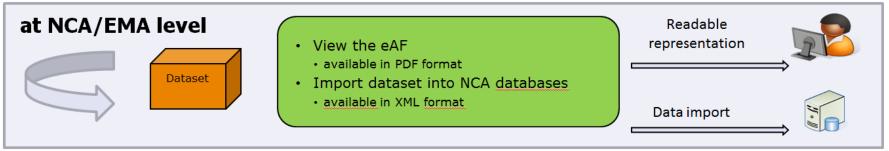
Source: http://esubmission.ema.europa.eu/tiges/cmbdocumentation.html

## Essential functions implemented by CESSP Phase 1





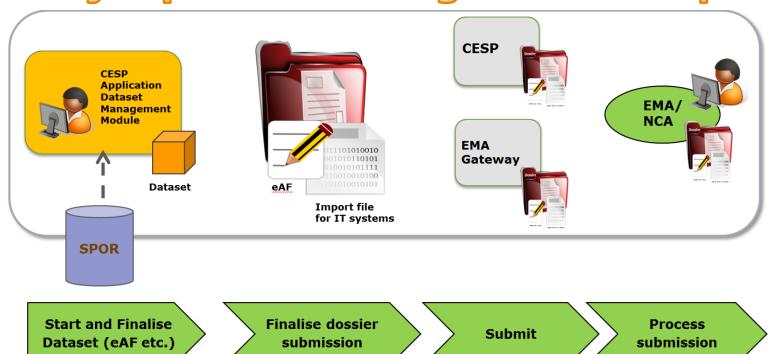








# No major process change in CESSP phase 1!







# 2) Project status and milestones

- User interface (Demo later in this webinar)
  - The team is working on the user interface development of the eAF MAA sections
  - Delays (due to several reasons like GDPR, BREXIT) in the past could not be made up yet
  - · Risk of not keeping timelines
- XML DES (see also http://esubmission.ema.europa.eu/cessp/cessp.htm)
  - Upgraded XML schema draft was published; consultation ended 30th of April
  - · A final version will be published 3 months before the Go-Live-Date
- Communication
  - Team is trying to keep stakeholders well informed (emails, website, webinar)
  - Please feedback additional needs to us via <a href="mailto:cesspproject@hma.eu">cesspproject@hma.eu</a>
- Guidance Material
  - A first check was done and we will try to keep changes minimal
  - most impacts on http://esubmission.ema.europa.eu/eaf/index.html

Technical: Practical user guide for electronic Application Forms (eAF) for human and veterinary products in the EU 17.07.2018



1-50



# Milestones

	sala.	
Publication of the draft of the updated XML Schema Definition	1, 2019	Ī _
Webinar regarding use of the updated XML Schema it Hu an and	27/03/2019	
Veterinary domains)		
Publication of call for Interest fo patic. in the User Acceptance Test UAT#3	Q2 2 9	anicaci
Work on updating relevant guidance documents		
Finalisation of complete coding of the CESP application dataset adule	2019	
UAT#3 internal release - final testing to le team	Q3 2019	
Provision of information about remarks for the Provision of Information	Q3 2019	SINTEN (E)
application dataset module	{5_	
Performing UAT#3		
Go-Live version of the CESP application dataset module in lemos	19	
Publication of the finalised XML Schema Denit	Q4 2019	
Start of pre-registration for the contract to the let lodule	Q4 2019	1-115
	03 24	
Publication of updated relevant guidance documents	4	
Organisation of trainings in collaboration with EUN Telemants	0.19	
Organisation of trainings for Users at industrial		ļ
Go-live of the CESP application dataset model of the CESP application	Q4 2019	
replace the eAF MAA (human and vet, optio use)		
Mandatory use of CESP application dataset module (eAF MAA human and vet)	Q2 2020	





# 3) Information about UAT#3

- Objective: Identify show stoppers which would prevent Go live
- The process of publication / invitation
  - Publication of call for Interest for UAT#3 on eSubmission website
  - Completing the registration form online at a dedicated URL open to all trade associations to possibly manage feedback - to be confirmed)
  - A preview of the system and the data input concept will be delivered prior to the UAT
  - Results of the UAT will be summarised in a closing meeting

#### Timeframe

Currently Q3 2019 in the published milestones

#### Scope

- Login
- Identify showstoppers (usability and content)
- Focus on creating valid application forms





# 4) XSD Upgrade





# **Contents**

- 1. New schema structure overview
- 2. XML Loading

## New schema structure overview







eaf\_dictionary2.xsd



maa human2.xsd

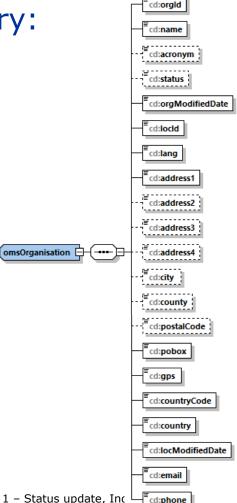


maa\_veterinary2.xsd

### Remarks:

- Three XSD schemas:
  - maa\_human2.xsd (eAF of human domain)
  - maa\_veterinary2.xsd (eAF of veterinary domain)
  - eaf\_dictionary.xsd (common dictionary e.g. Procedure type with type definitions for **both domains**)
- Version should be 2.0 (no backward compatibility with 1.2x.\* versions)

# Dictionary: $\bigcirc$ $\land$ $\land$ $\land$







```
<xs:complexType name="omsOrganisation">
    <xs:sequence>
        <xs:element name="orgId" type="xs:string"/>
        <xs:element name="name" type="xs:string"/>
        <xs:element name="acronym" type="xs:string" min0ccurs="0"/>
        <xs:element name="status" type="xs:string" minOccurs="0"/>
        <xs:element name="orgModifiedDate" type="xs:date"/>
        <xs:element name="locId" type="xs:string"/>
        <xs:element name="lang" type="xs:string"/>
        <xs:element name="address1" type="xs:string"/>
        <xs:element name="address2" type="xs:string" minOccurs="0"/>
        <xs:element name="address3" type="xs:string" min0ccurs="0"/>
        <xs:element name="address4" type="xs:string" minOccurs="0"/>
        <xs:element name="city" type="xs:string" min0ccurs="0"/>
        <xs:element name="county" type="xs:string" minOccurs="0"/>
        <xs:element name="postalCode" type="xs:string" minOccurs="0"/>
        <xs:element name="pobox" type="xs:string"/>
        <xs:element name="gps" type="xs:string"/>
        <xs:element name="countryCode" type="xs:string"/>
        <xs:element name="country" type="xs:string"/>
        <xs:element name="locModifiedDate" type="xs:date"/>
        <xs:element name="email" type="xs:string"/>
        <xs:element name="phone" type="xs:string"/>
    </xs:sequence>
</xs:complexType>
```

# Dictionary: RMS





```
<xs:complexType name="pharmaceuticalFormsCollectionType">
    <xs:sequence>
        <xs:element name="pharmaceuticalForm" type="cd:rmsTerm" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
                                                                                                    cd:rmsTerm
</xs:complexType>
                                                                                                               cd:listld
                                                                                                               cd:termId
                                                                                                              cd:name
                                                                              cd:pharmaceuticalForm
                                        pharmaceuticalFormsCollectionT...
                                                                                             0...0
      <xs:complexType name="rmsTerm">
           <xs:sequence>
                                                                                                               cd:symbol
               <xs:element name="listId" type="xs:string"/>
               <xs:element name="termId" type="xs:string"/>
                                                                                                               cd:version
               <xs:element name="name" type="xs:string"/>
               <xs:element name="shortName" type="xs:string" minOccurs="0"/>
               <xs:element name="symbol" type="xs:string" minOccurs="0"/>
               <xs:element name="version" type="xs:integer"/>
          </xs:sequence>
      </xs:complexType>
```

# Dictionary: enumerations





- advancedTherapyMedicinalProductHumanType
- annexHumanType
- sannexVeterinaryType
- applicationConsiderationHumanType
- S applicationConsiderationVeterinaryType
- authorisationGrantedByType
- © changeType
- ⑤ functionType
- IegalBaseHumanType
- IegalBaseVeterinaryType
- multipleApplicationSubmittedType
- orphanMedicinalProductDesignationStatusType
- g procedureScopeHumanType
- S procedureScopeVeterinaryType
- g proposedAdministrationType
- ···⑤ qualitativeChangeDetailType
- standardTimeUnitsType

# Dictionary: type definitions



THIS APPLICATION CONCERNS



#### 1.1.1 A CENTRALISED PROCEDURE (according to Regulation (EC) No 726/2004) 1.1.2 A MUTUAL RECOGNITION PROCEDURE <xs:complexType name="mutualRecognitionProcedureType"> (according to Article 28(2) of Directive 2001/83/EC) <xs:sequence> <xs:element name="referenceMemberState" type="cd:rmsTerm"/> Reference Member State <xs:element name="dateOfAuthorisation" type="xs:date"/> Date of authorisation <xs:element name="marketAuthorisationNumber" type="cd:stringMax30"/> Marketing authorisation number <xs:element name="procedureNumber" type="cd:stringMax50"/> (\* a copy of the authorisation should be provided - see section 4.2) <xs:element name="usage" type="cd:usageType"/> Procedure number <xs:choice> Repeat use (Please also complete section 4.2) <xs:element name="memberRenewal" type="cd:memberRenewalType"/> <xs:element name="wavesCollection"> Wave 1 Add All Remove All <xs:complexType> Concerned Member State (specify) <xs:sequence> <xs:element name="wave" minOccurs="1" maxOccurs="unbounded"> Proposed/Agreed common renewal date Click arrow button to select concerned Member State, With the drop-down list open, press the first letter of the item. <xs:complexType> ou wish to select. To cycle through other items beginning II Waves <xs:sequence> <xs:element name="memberRenewal" type="cd:memberRenewalType"/> </xs:sequence> </xs:complexType> </xs:element> </xs:sequence> </xs:complexType> </xs:element> </xs:choice> <!-- only veterinary --> <xs:element name="waiverOrAmendmentDetails" type="xs:string" minOccurs="0"/> </xs:sequence> <xs:assert test="(cd:usage = 'repeat' and boolean(cd:wavesCollection)) or (cd:usage = 'first' and boolean(cd:memberRenewal))"/> </xsi:5ompleESSP=Phase 1 - Status update, Industry - 07.05.2019</p>

# What can be validated through the schema?







element x is mandatory and repeatable (1..n)

minOccurs="1" maxOccurs="unbounded"



element x is optional and repeatable (0..n)

minOccurs="0" maxOccurs="unbounded"



element x is optional

minOccurs="0"



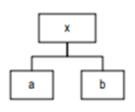
element x has the following content model

<xs:sequence>
 <xs:element....
<xs:element.....</pre>



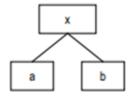
elements are defined elsewhere

<xs:import namespace</pre>

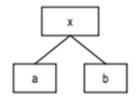


element x contains elements a and b

```
<xs:sequence>
    <xs:element... minOccurs="1"
    <xs:element... minOccurs="1"</pre>
```



element x contains either element a or b



Max length of a string
type="cd:stringMax50"

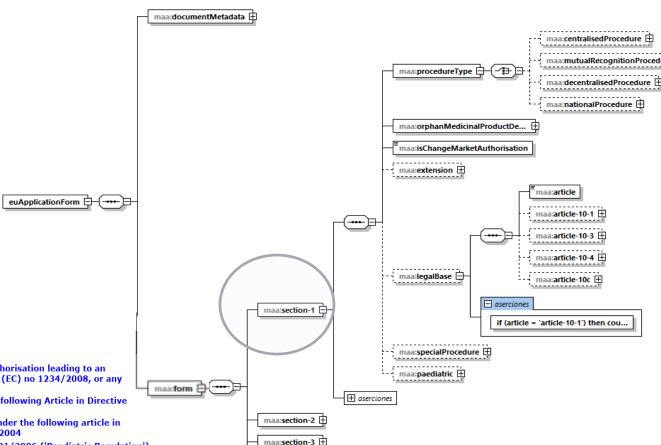
Conditions among elements depending on their values

## MAA human

# HMA\*\*



## Section 1



maa:section-4 🖽

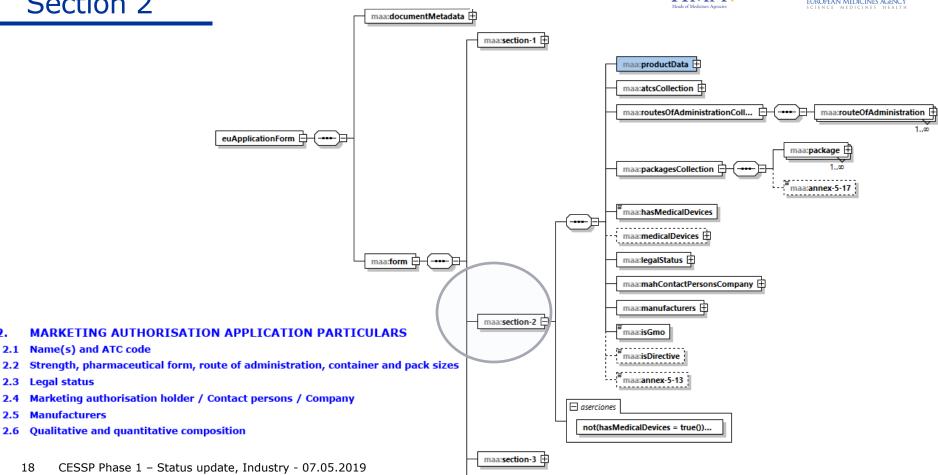
#### 1. TYPE OF APPLICATION

- 1.1 This application concerns
- 1.2 Orphan medicinal product information
- 1.3 Application for a change to existing marketing authorisation leading to an extension as referred to in Annex I of Regulations (EC) no 1234/2008, or any national legislation, where applicable
- 1.4 This application submitted in accordance with the following Article in Directive 2001/83/EC
- 1.5 Consideration of this application also requested under the following article in Directive 2001/83/EC or Regulation (EC) N° 726/2004
- 1.6 Requirements according to Regulation (EC) No 1901/2006 ('Paediatric Regulation')
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## Section 2



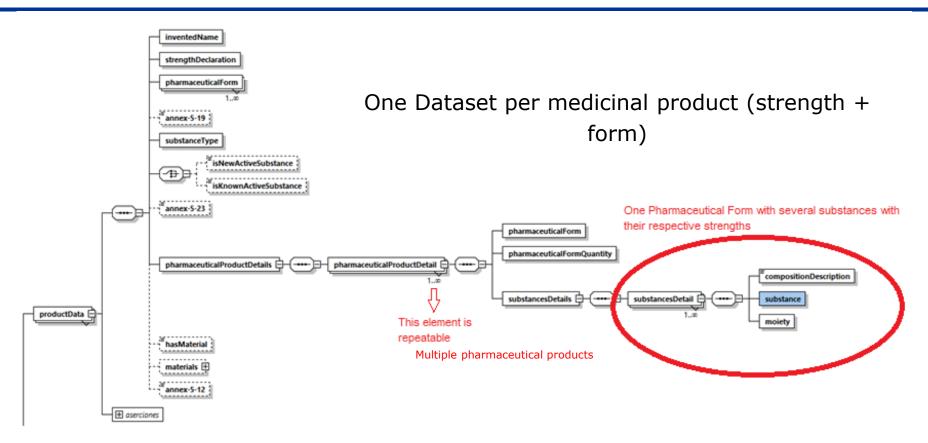


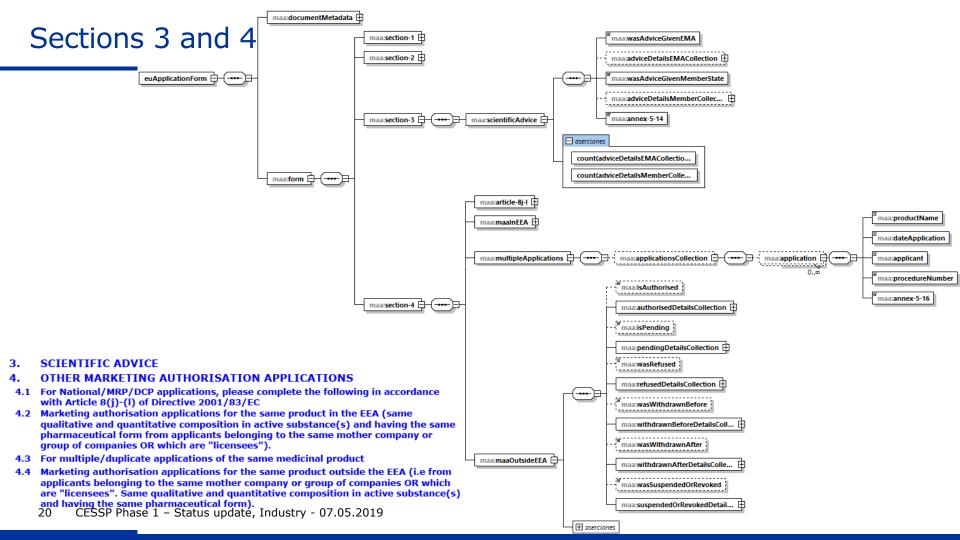


maa:section-4













```
<xs:element name="form">
    <xs:complexType>
        <xs:sequence>
            <!-- section 1 start -->
            <xs:element name="section-1"> ... </xs:element>
            <!-- section 1 end -->
            <!-- section 2 start -->
            <xs:element name="section-2"> ... </xs:element>
            <!-- section 2 end -->
            <!-- section 3 start -->
            <xs:element name="section-3">
                <xs:complexType>
                    <xs:sequence>
                        <xs:element name="scientificAdvice">
                            <xs:complexType>
```

#### **Remarks:**

• First level children of "form" have names that reflect their position in current PDF structure





#### **Remarks:**

- Document has root node "euApplicationForm" with two children:
  - documentMetadata: domain, version, creation date
  - form: the eAF data
- Only two namespaces:
  - maa:http://www.eaf.com/maa/ (instances data namespace)
  - cd:http://www.eaf.com/dictionary/ (dictionary namespace)
- No external namespaces (xfa=http://www.xfa.org/schema/xfa-data/1.0/)
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#### **Remarks:**

- Enforced consistent naming conventions (use of *Camel Case* notation)
- Boolean nodes (yes/no) have names that suggest their nature (begin with "has" "is" "was",...)
- Used XSD schema to define/enforce:
  - Data types
  - Be mandatory/optional
  - Cardinality





#### **Remarks:**

- Collections of repeteable nodes always contained in an exclusive parent
- Parent name of nodes xxx is named xxxsCollection (plural form + "Collection" suffix)
- exclusive = no other nodes contained in it

New schema structure overview (Cont.)





#### **Remarks:**

- Children of 2nd level (or higher) have names that reflect their business meaning (e.g.: centralisedProcedure)
- Use of xs:choice element to limit document size and avoid inconsistencies (if it is a centralisedProcedure, no nationalProcedure contents exist)
- Use of types and deferred node definitions (in the dictionary)





```
<xs:element name="medicinalProductsWhereBioequivalence">
    <xs:complexType>
       <xs:sequence>
           <xs:element name="medicinalProduct" minOccurs="0" maxOccurs="unbounded">
               <xs:complexType>
                   <xs:sequence>
                       <xs:element name="bioStyRefEudractNumber" type="cd:stringMax30" minOccurs="0"/>
                       <xs:element name="inventedName" type="cd:stringMax250" minOccurs="0"/>
                       <xs:element name="pharmaceuticalForms" type="cd:rmsTerm"/>
                       <xs:element name="marketingAuthorisations" type="cd:marketingAuthorisationsTypeWithDate"/>
                       <xs:element name="authorisationGrantedBy" type="cd:authorisationGrantedByType" minOccurs="0"/>
                       <xs:element name="authorisationMemberState" type="cd:rmsTerm" minOccurs="0"/>
                       <xs:element name="memberStateOfSource" type="cd:rmsTerm" minOccurs="0"/>
                   </xs:sequence>
                   <xs:assert test="authorisationMemberState or not(authorisationGrantedBy = 'memberState')"/>
               </xs:complexType>
           </xs:element>
       </xs:sequence>
   </xs:complexTvpe>
</xs:element>
```

#### **Remarks:**

- Use of xs:assert elements to enforce complex business rules compliance (Note: XSD schema version 1.1 used)
- Assertions defined after element fields enumeration, so the element definition is always self-contained
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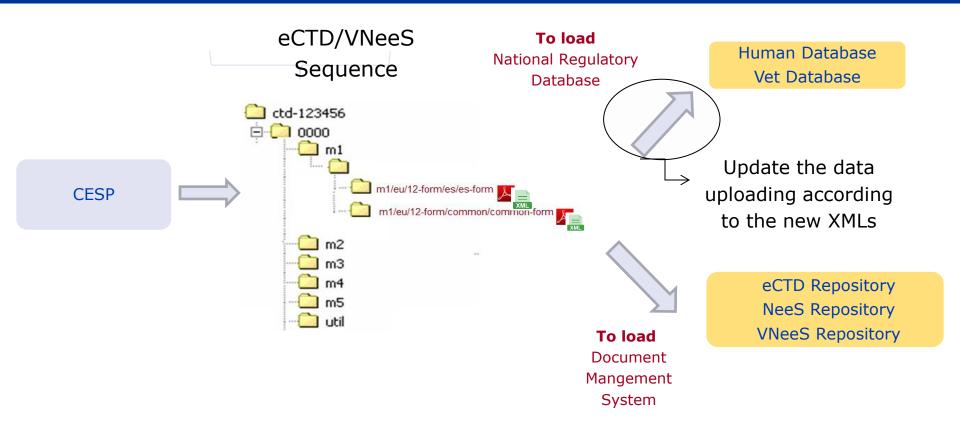
# **Contents**

- 1. New schema structure overview
- 2. XML Loading

# Information Uploading with the new Schemas











# 5) Demonstration of New Application Interface

# What can I do in the new application?





## An Applicant will be able to:

- Create the Application Dataset online
- 2. Search/Input OMS and RMS data from SPOR
- 3. Reuse/save/modify/export/import Datasets
- 4. Validate data completion and business rules
- 5. View dataset in human readable layout
- Produce PDF to enable offline review/inclusion in submission (PDF will contain XML Dataset as attachment)
- 7. The application is not a long term data repository
- 8. Applicants can Import and Export datasets created with this web application.





HMA Common Europea Submission Portal	n
Log in	

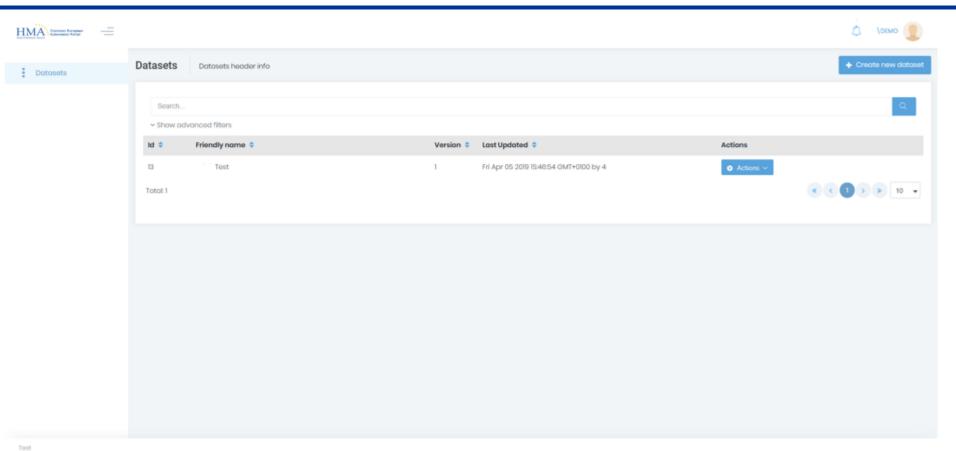
•••••	4
Remember me	Forgot password

New tenant | Email activation



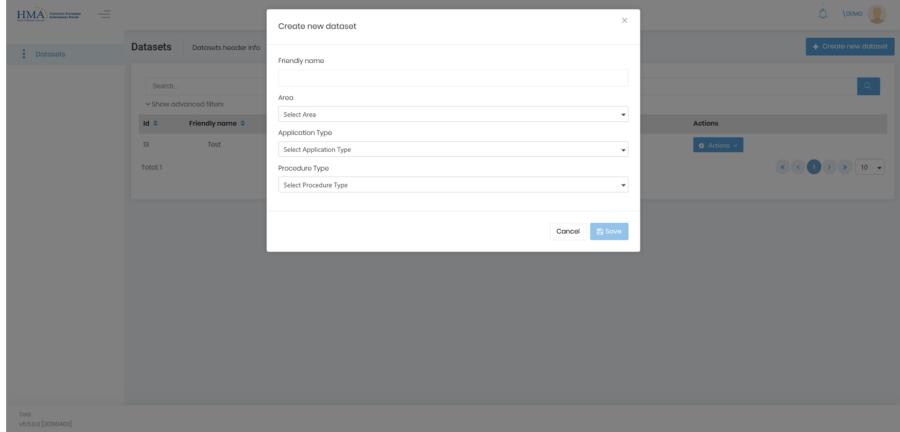






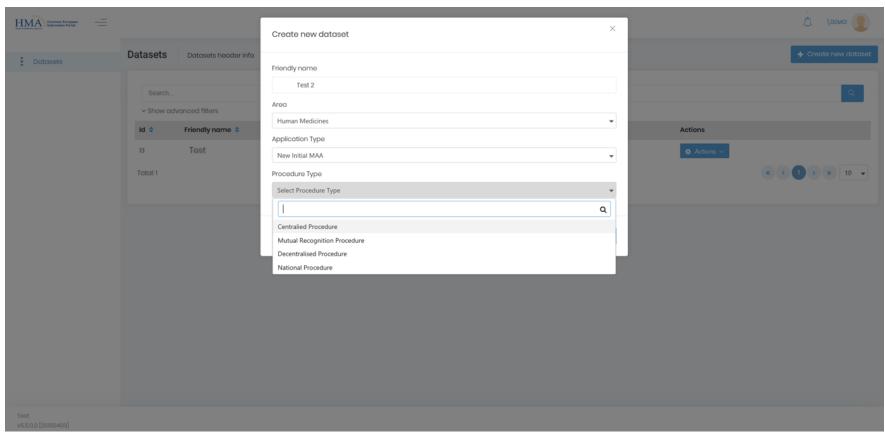






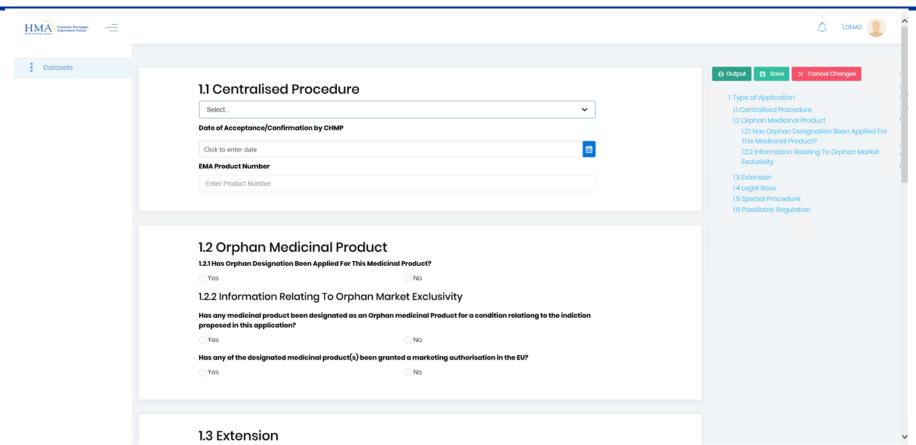






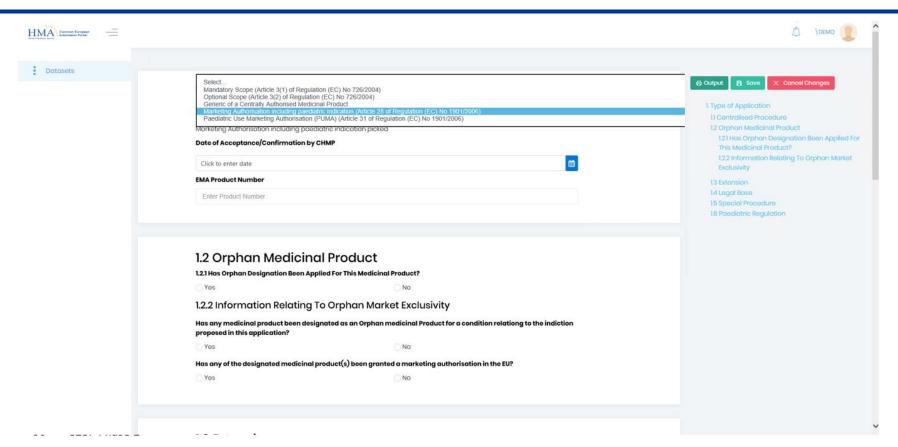






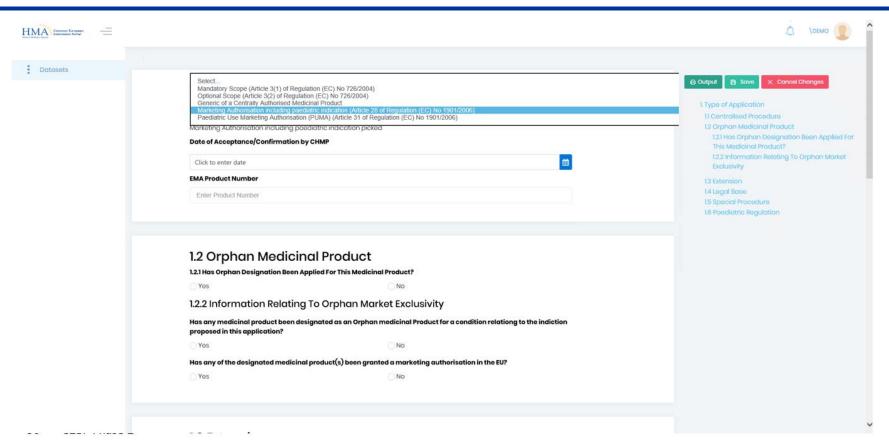






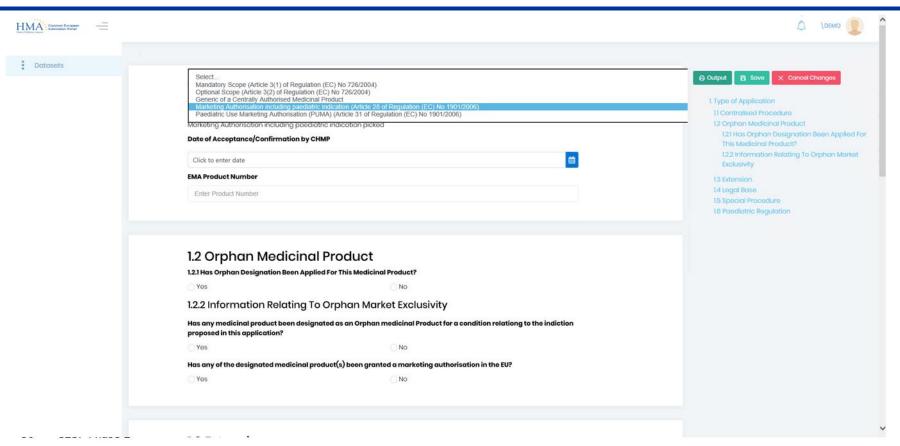






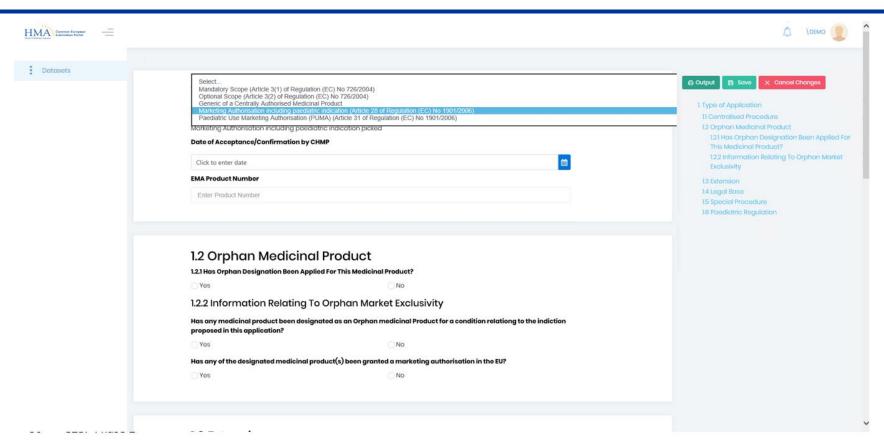
















## **DECLARATION AND SIGNATURE**

roduct (invented) name Acme ca	atching-road-runner pills	
Pharmaceutical Form: Film-coate	ed tablet	
Strength:		Units:
	Active Substance	A Trailie
KRYPTONITE		J. S.







# Abbreviations used in the presentation





CESSP – Common European Single Submission Portal

CESP - Common European submission Portal

DES – Data Exchange Standard

GDPR - The EU General Data Protection Regulation

eAF – electronic Application Form

NCA - National Competent Authority

SPOR – Master data management services for Substances, Products, Organisations, Referentials

- SMS Substance Management System
- PMS Product Management System
- OMS Organisations Management System
- RMS Referentials Management System

UAT – User Acceptance Test

XSD - XML Schema Definition





For any question about the project please contact:

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or visit

http://esubmission.ema.europa.eu/cessp/cessp.htm