

Annex C. XML Document Type Definitions representation of the ECHR messages (Informative)

This Annex contains two Extensible Mark-up Language (XML) Document Type Definitions (DTD) generated from the GMD specified in this European Prestandard. These DTDs are for the Request ECHR message and the Provide ECHR message. Both these DTD are shown in a complete form, although most of the elements of the Request ECHR message are also found in the Provide ECHR message. The other two messages specified in this European Prestandard are variants of these messages with only one or two additional attributes in each case.

These DTDs are provided for illustrative purposes only.

C.1 Document Type Definitions for the Request ECHR Message

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<!ELEMENT RequestEhcr (IDbyOriginator,
                        IssueDate,
                        PatientMatching,
                        RequestAck,
                        MessageComment*,
                        Language?,
                        HcParty*,
                        Destination,
                        Source,
                        Intermediary*,
                        SpecEhcrInfo,
                        ReasonForRequest)>
<!ATTLIST RequestEhcr Urgency (LOW| MEDIUM| HIGH) #REQUIRED>
<!ELEMENT IDbyOriginator (#PCDATA)>
<!ELEMENT IssueDate (#PCDATA)>
<!ATTLIST IssueDate XML-SQLTYPE CDATA #FIXED "VARTIMESTAMP">
<!ELEMENT PatientMatching (PartyIDs?,
                           PersonName?,
                           AlternativeName*,
                           BirthDate?,
                           Sex?,
                           Address*,
                           Comment?)>
<!ELEMENT RequestAck (#PCDATA)>
<!ATTLIST RequestAck XML-SQLTYPE CDATA #FIXED "BOOLEAN">
<!ELEMENT MessageComment (CodedElement|
                           String)>
<!ELEMENT Language (#PCDATA)>
<!ATTLIST Language ICSI CDATA #REQUIRED>
<!ELEMENT HcParty (PartyIDs,
                  Address*,
                  Telecom*,
                  Language*,
                  HcpSpecialty*,
                  HcPartyRelation*,
                  (Organisation|
                   Professional))>
<!ELEMENT Destination (HcpName,

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        ID,
        HcPartyRelation*)>
<!--ELEMENT Source (HcpName,
        ID,
5      HcPartyRelation*)>
<!--ELEMENT Intermediary (HcpName,
        ID,
        HcPartyRelation*)>
<!--ATTLIST Intermediary Role (CLEAR_REQUEST| CLEAR_PROVIDE| AUTH_DESTINATION|
10      AUTH_SOURCE| ID_HOLDER| OTHER) #REQUIRED>
<!--ELEMENT SpecEhcrInfo (Language?,
        EnterpriseID?,
        SubsetDescriptor?,
        UpdatePeriod*)>
15 <!--ATTLIST SpecEhcrInfo Scope (COMPLETE| SUBSET| UPDATE) #REQUIRED>
<!--ELEMENT ReasonForRequest (CodedElement,
        AddedText)>
<!--ELEMENT PartyIDs (ID+)>
<!--ELEMENT PersonName (PersonNameType?,
20      ValidPeriod?,
        (StructName|
        String)))>
<!--ELEMENT AlternativeName (PersonNameType?,
        ValidPeriod?,
25      (StructName|
        String)))>
<!--ELEMENT BirthDate (#PCDATA)>
<!--ATTLIST BirthDate XML-SQLTYPE CDATA #FIXED "VARTIMESTAMP">
<!--ELEMENT Sex (#PCDATA)>
30 <!--ATTLIST Sex ICSI CDATA #REQUIRED>
<!--ELEMENT Address (ValidPeriod?,
        PostCode?,
        AreaOfCountry?,
        (StructAddress|
35      UnstructAddress)))>
<!--ATTLIST Address Type (HOME| WORK| VACATION| OTHER| UNSPECIFIED) #IMPLIED>
<!--ELEMENT Comment (#PCDATA)>
<!--ELEMENT CodedElement (Code,
        Rubric)>
40 <!--ATTLIST CodedElement ICSI CDATA #REQUIRED>
<!--ELEMENT String (#PCDATA)>
<!--ELEMENT Telecom (ValidPeriod?,
        (StructTelecom|
        String)))>
45 <!--ATTLIST Telecom AddrType (HOME| WORK| VACATION| OTHER| UNSPECIFIED| MOBILE) #IMPLIED
        Type (VOICE| MOBILE| PAGER| FACSIMILE| E-MAIL| WEB-SITE| OTHER) #IMPLIED>
<!--ELEMENT HcpSpecialty (CodedElement|
        String)>
<!--ELEMENT HcPartyRelation (HcpName,
50      ID,
        HcPartyRelation*,

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        HcPartyRelType)>
<!--ELEMENT Organisation (OrganisationName?,
        OrganisationType?)>
<!--ELEMENT Professional (HcpType?,
5         PersonName?,
        HcpPosition?,
        HcpQualification*,
        MilitaryRank?)>
<!--ELEMENT HcpName (#PCDATA)>
10 <!--ELEMENT ID (#PCDATA)>
<!--ATTLIST ID IDSCHEME CDATA #IMPLIED>
<!--ELEMENT EnterpriseID (Code,
        Rubric)>
<!--ATTLIST EnterpriseID ICSI CDATA #REQUIRED>
15 <!--ELEMENT SubsetDescript (#PCDATA)>
<!--ELEMENT UpdatePeriod (StartDate?,
        EndDate?)>
<!--ELEMENT AddedText (#PCDATA)>
<!--ELEMENT PersonNameType (#PCDATA)>
20 <!--ATTLIST PersonNameType ICSI CDATA #REQUIRED>
<!--ELEMENT ValidPeriod (StartDate?,
        EndDate?)>
<!--ELEMENT StructName (FamilyName,
        FirstName?,
25        MiddleName?,
        Title?,
        GenerationQual?)>
<!--ELEMENT PostCode (#PCDATA)>
<!--ELEMENT AreaOfCountry (CodedElement|
30        String)>
<!--ELEMENT StructAddress (Street,
        House?,
        Apartment?,
        PoBox?,
35        CityDistrict?,
        City?)>
<!--ELEMENT UnstructAddress (String+)>
<!--ELEMENT Code (#PCDATA)>
<!--ELEMENT Rubric (#PCDATA)>
40 <!--ELEMENT StructTelecom (TelCountry?,
        TelArea,
        TelNumber,
        TelExtension?)>
<!--ELEMENT HcPartyRelType (#PCDATA)>
45 <!--ATTLIST HcPartyRelType ICSI CDATA #REQUIRED>
<!--ELEMENT OrganisationName (#PCDATA)>
<!--ELEMENT OrganisationType (#PCDATA)>
<!--ATTLIST OrganisationType ICSI CDATA #REQUIRED>
<!--ELEMENT HcpType (#PCDATA)>
50 <!--ATTLIST HcpType ICSI CDATA #REQUIRED>

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<!ELEMENT HcpPosition (CodedElement|
    String)>
<!ELEMENT HcpQualification (CodedElement|
    String)>
5  <!ELEMENT MilitaryRank (CodedElement|
    String)>
    <!ELEMENT StartDate (#PCDATA)>
    <!ATTLIST StartDate XML-SQLTYPE CDATA #FIXED "VARTIMESTAMP">
    <!ELEMENT EndDate (#PCDATA)>
10  <!ATTLIST EndDate XML-SQLTYPE CDATA #FIXED "VARTIMESTAMP">
    <!ELEMENT FamilyName (#PCDATA)>
    <!ELEMENT FirstName (#PCDATA)>
    <!ELEMENT MiddleName (#PCDATA)>
    <!ELEMENT Title (#PCDATA)>
15  <!ELEMENT GenerationQual (#PCDATA)>
    <!ELEMENT Street (#PCDATA)>
    <!ELEMENT House (#PCDATA)>
    <!ELEMENT Apartment (#PCDATA)>
    <!ELEMENT PoBox (#PCDATA)>
20  <!ELEMENT CityDistrict (#PCDATA)>
    <!ELEMENT City (#PCDATA)>
    <!ELEMENT TelCountry (#PCDATA)>
    <!ELEMENT TelArea (#PCDATA)>
    <!ELEMENT TelNumber (#PCDATA)>
25  <!ELEMENT TelExtension (#PCDATA)>

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C.2 Document Type Definitions for the Provide EHCR Message

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<!ELEMENT ProvideEHCR (IDbyOriginator,
    IssueDate,
    PatientMatching,
30  RequestAck,
    MessageComment*,
    Language?,
    HcParty*,
    Destination,
35  Source,
    Intermediary*,
    SpecEhcrInfo,
    RequestMsgRef?,
    DistribRule*,
40  EhcrExtract)>
    <!ATTLIST ProvideEHCR Urgency (LOW| MEDIUM| HIGH) #REQUIRED>
    <!ELEMENT IDbyOriginator (#PCDATA)>
    <!ELEMENT IssueDate (#PCDATA)>
    <!ATTLIST IssueDate XML-SQLTYPE CDATA #FIXED "VARTIMESTAMP">
45  <!ELEMENT PatientMatching (PartyIDs?,
    PersonName?,
    AlternativeName*,
    BirthDate?,
    Sex?,
50  Address*,

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    Comment?)>
<!ELEMENT RequestAck (#PCDATA)>
<!ATTLIST RequestAck XML-SQLTYPE CDATA #FIXED "BOOLEAN">
<!ELEMENT MessageComment (CodedElement|
5      String)>
<!ELEMENT Language (#PCDATA)>
<!ATTLIST Language ICSI CDATA #REQUIRED>
<!ELEMENT HcParty (PartyIDs,
10      Address*,
      Telecom*,
      Language*,
      HcpSpecialty*,
      HcPartyRelation*,
      (Organisation|
15      Professional))>
<!ELEMENT Destination (HcpName,
      ID,
      HcPartyRelation*)>
<!ELEMENT Source (HcpName,
20      ID,
      HcPartyRelation*)>
<!ELEMENT Intermediary (HcpName,
      ID,
      HcPartyRelation*)>
25 <!ATTLIST Intermediary Role (CLEAR_REQUEST| CLEAR_PROVIDE| AUTH_DESTINATION|
      AUTH_SOURCE| ID_HOLDER| OTHER) #REQUIRED>
<!ELEMENT SpecEhcrInfo (Language?,
      EnterpriseID?,
      SubsetDescript?,
30      UpdatePeriod?)>
<!ATTLIST SpecEhcrInfo Scope (COMPLETE| SUBSET| UPDATE) #REQUIRED>
<!ELEMENT RequestMsgRef (Originator,
      IDbyOriginator,
      IDbyThisSender?,
35      IssueDate?)>
<!ELEMENT DistribRule EMPTY>
<!ELEMENT EhcrExtract (ComponentID,
      RevisionLink?,
      ComponentName?,
40      ComponentOrigin?,
      RelatedDate*,
      RelatedHcp*,
      DRLinkRef*,
      Component+)>
45 <!ATTLIST EhcrExtract Status (CURRENT| SUPERSEDED) #REQUIRED>
<!ELEMENT PartyIDs (ID+)>
<!ELEMENT PersonName (PersonNameType?,
      ValidPeriod?,
      (StructName|
50      String))>
<!ELEMENT AlternativeName (PersonNameType?,

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        ValidPeriod?,
        (StructName|
        String))>
<!--ELEMENT BirthDate (#PCDATA)>
5 <!--ATTLIST BirthDate XML-SQLTYPE CDATA #FIXED "VARTIMESTAMP">
<!--ELEMENT Sex (#PCDATA)>
<!--ATTLIST Sex ICSI CDATA #REQUIRED>
<!--ELEMENT Address (ValidPeriod?,
        PostCode?,
10        AreaOfCountry?,
        (StructAddress|
        UnstructAddress))>
<!--ATTLIST Address Type (HOME| WORK| VACATION| OTHER| UNSPECIFIED) #IMPLIED>
<!--ELEMENT Comment (#PCDATA)>
15 <!--ELEMENT CodedElement (Code,
        Rubric)>
<!--ATTLIST CodedElement ICSI CDATA #REQUIRED>
<!--ELEMENT String (#PCDATA)>
<!--ELEMENT Telecom (ValidPeriod?,
20        (StructTelecom|
        String))>
<!--ATTLIST Telecom AddrType (HOME| WORK| VACATION| OTHER| UNSPECIFIED| MOBILE) #IMPLIED
        Type (VOICE| MOBILE| PAGER| FACSIMILE| E-MAIL| WEB-SITE| OTHER) #IMPLIED>
<!--ELEMENT HcpSpecialty (CodedElement|
25        String)>
<!--ELEMENT HcPartyRelation (HcpName,
        ID,
        HcPartyRelation*,
        HcPartyRelType)>
30 <!--ELEMENT Organisation (OrganisationName?,
        OrganisationType?)>
<!--ELEMENT Professional (HcpType?,
        PersonName?,
        HcpPosition?,
35        HcpQualification*,
        MilitaryRank?)>
<!--ELEMENT HcpName (#PCDATA)>
<!--ELEMENT ID (#PCDATA)>
<!--ATTLIST ID IDScheme CDATA #IMPLIED>
40 <!--ELEMENT EnterpriseID (Code,
        Rubric)>
<!--ATTLIST EnterpriseID ICSI CDATA #REQUIRED>
<!--ELEMENT SubsetDescript (#PCDATA)>
<!--ELEMENT UpdatePeriod (StartDate?,
45        EndDate?)>
<!--ELEMENT Originator (HcpName,
        ID,
        HcPartyRelation*)>
<!--ELEMENT IDbyThisSender (#PCDATA)>
50 <!--ELEMENT ComponentID (#PCDATA)>

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<!ATTLIST ComponentID IdScope (MESSAGE| EHCR| SYSTEM) #REQUIRED>
<!ELEMENT RevisionLink (IdValue,
    TimeStamp?,
    RefComponentOrig?)>
5 <!ATTLIST RevisionLink Type (PREVIOUS| NEXT) #REQUIRED
    Order CDATA #IMPLIED>
<!ELEMENT ComponentName (Code,
    Rubric)>
<!ATTLIST ComponentName ICSI CDATA #REQUIRED>
10 <!ELEMENT ComponentOrigin (OriginatingHcp,
    TimeStamp)>
<!ELEMENT RelatedDate (#PCDATA)>
<!ATTLIST RelatedDate XML-SQLTYPE CDATA #FIXED "VARTIMESTAMP"
    Accuracy (ACCURATE| APPROXIMATE) #IMPLIED
15 <!ELEMENT RelatedDate XML-SQLTYPE CDATA #FIXED "VARTIMESTAMP"
    Role (START| END| DIAGNOSED| SCHEDSTART| SCHEDEND| PLANNING|
    ORIGINALRECORD) #REQUIRED>
<!ELEMENT RelatedHcp (HcpName,
    ID,
    HcpPartyRelation*,
    RelationshipType)>
20 <!ELEMENT DRLinkRef (#PCDATA)>
<!ELEMENT Component (ComponentID,
    RevisionLink?,
    ComponentName?,
    ComponentOrigin?,
    RelatedDate*,
    RelatedHcp*,
    DRLinkRef*,
    (Complex|
25 <!ELEMENT Component (ComponentID,
    RevisionLink?,
    ComponentName?,
    ComponentOrigin?,
    RelatedDate*,
    RelatedHcp*,
    DRLinkRef*,
    (Complex|
    Item)?)>
30 <!ATTLIST Component Order CDATA #IMPLIED
    Role (STRUCTURED| CONTEXT| NARRATIVE) #REQUIRED
    Status (CURRENT| SUPERSEDED) #REQUIRED>
<!ELEMENT PersonNameType (#PCDATA)>
35 <!ATTLIST PersonNameType ICSI CDATA #REQUIRED>
<!ELEMENT ValidPeriod (StartDate?,
    EndDate?)>
<!ELEMENT StructName (FamilyName,
    FirstName?,
    MiddleName?,
    Title?,
    GenerationQual?)>
40 <!ELEMENT PostCode (#PCDATA)>
<!ELEMENT AreaOfCountry (CodedElement|
    String)>
45 <!ELEMENT StructAddress (Street,
    House?,
    Apartment?,
    PoBox?,
    CityDistrict?,
    City?)>
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<!--ELEMENT UnstructAddress (String+)>
<!--ELEMENT Code (#PCDATA)>
<!--ELEMENT Rubric (#PCDATA)>
<!--ELEMENT StructTelecom (TelCountry?,
5      TelArea,
      TelNumber,
      TelExtension?)>
<!--ELEMENT HcPartyRelType (#PCDATA)>
<!--ATTLIST HcPartyRelType ICSI CDATA #REQUIRED>
10 <!--ELEMENT OrganisationName (#PCDATA)>
<!--ELEMENT OrganisationType (#PCDATA)>
<!--ATTLIST OrganisationType ICSI CDATA #REQUIRED>
<!--ELEMENT HcpType (#PCDATA)>
<!--ATTLIST HcpType ICSI CDATA #REQUIRED>
15 <!--ELEMENT HcpPosition (CodedElement|
      String)>
<!--ELEMENT HcpQualification (CodedElement|
      String)>
<!--ELEMENT MilitaryRank (CodedElement|
20      String)>
<!--ELEMENT StartDate (#PCDATA)>
<!--ATTLIST StartDate XML-SQLTYPE CDATA #FIXED "VARTIMESTAMP">
<!--ELEMENT EndDate (#PCDATA)>
<!--ATTLIST EndDate XML-SQLTYPE CDATA #FIXED "VARTIMESTAMP">
25 <!--ELEMENT IdValue (#PCDATA)>
<!--ELEMENT TimeStamp (#PCDATA)>
<!--ATTLIST TimeStamp XML-SQLTYPE CDATA #FIXED "VARTIMESTAMP">
<!--ELEMENT RefComponentOrig (HcpName,
      ID,
30      HcPartyRelation*)>
<!--ELEMENT OriginatingHcp (HcpName,
      ID,
      HcPartyRelation*)>
<!--ELEMENT RelationshipType (#PCDATA)>
35 <!--ATTLIST RelationshipType ICSI CDATA #REQUIRED>
<!--ELEMENT Complex (OCC|
      SCC)>
<!--ELEMENT Item (DataItem|
      LinkItem|
40      CommentItem)>
<!--ELEMENT FamilyName (#PCDATA)>
<!--ELEMENT FirstName (#PCDATA)>
<!--ELEMENT MiddleName (#PCDATA)>
<!--ELEMENT Title (#PCDATA)>
45 <!--ELEMENT GenerationQual (#PCDATA)>
<!--ELEMENT Street (#PCDATA)>
<!--ELEMENT House (#PCDATA)>
<!--ELEMENT Apartment (#PCDATA)>
<!--ELEMENT PoBox (#PCDATA)>
50 <!--ELEMENT CityDistrict (#PCDATA)>

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<!ELEMENT City (#PCDATA)>
<!ELEMENT TelCountry (#PCDATA)>
<!ELEMENT TelArea (#PCDATA)>
<!ELEMENT TelNumber (#PCDATA)>
5 <!ELEMENT TelExtension (#PCDATA)>
<!ELEMENT OCC (EnterpriseItem?,
           Component+)>
<!ATTLIST OCC LifeCycle (PAST| CURRENT| FUTURE) #IMPLIED
           Certainty (CERTAIN| UNCERTAIN) #IMPLIED
10           KnowingMode (OBSERVATION| ASSESSMENT| REPORTED| REPORTED| OTHER)
           #IMPLIED
           SubjectOfInfo (PATIENT| RELATIVE| FETUS| OTHER) #IMPLIED>
<!ELEMENT SCC EMPTY>
<!ELEMENT DataItem (DataContext,
15           RieReferenceType?,
           DataItem)>
<!ATTLIST DataItem Type (DEF| ADDRESS| DOB| DEATH| EVENT| EXTERNAL| LANGUAGE|
           MEDICATION| RELATEDPARTY| ID| NAME| SEX| PHYSICAL| TEXT|
           QUANTIFIABLE| CODED| TELECOM) #REQUIRED>
20 <!ELEMENT LinkItem (EhcrLinkType,
           LinkFrom,
           LinkTarget+)>
<!ELEMENT CommentItem (CommentText,
           CommentTarget)>
25 <!ELEMENT EnterpriseItem (EnterpriseID,
           EnterpriseType,
           EnterpriseData)>
<!ELEMENT DataContext EMPTY>
<!ATTLIST DataContext Warning (NONE| AVOID) #REQUIRED
30           Negation (AFFIRM| NEGATE) #REQUIRED
           Certainty (CERTAIN| UNCERTAIN) #REQUIRED>
<!ELEMENT RieReferenceType (#PCDATA)>
<!ATTLIST RieReferenceType ICSI CDATA #REQUIRED>
<!ELEMENT EhcrLinkType (#PCDATA)>
35 <!ATTLIST EhcrLinkType ICSI CDATA #REQUIRED>
<!ELEMENT LinkFrom (IdValue,
           TimeStamp?,
           RefComponentOrig?)>
<!ATTLIST LinkFrom Order CDATA #IMPLIED>
40 <!ELEMENT LinkTarget (IdValue,
           TimeStamp?,
           RefComponentOrig?)>
<!ATTLIST LinkTarget Order CDATA #IMPLIED>
<!ELEMENT CommentText (#PCDATA)>
45 <!ELEMENT CommentTarget (IdValue,
           TimeStamp?,
           RefComponentOrig?)>
<!ATTLIST CommentTarget Order CDATA #IMPLIED>
<!ELEMENT EnterpriseType (#PCDATA)>
50 <!ATTLIST EnterpriseType ICSI CDATA #REQUIRED>
<!ELEMENT EnterpriseData EMPTY>

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