

NTDS XSD Change Log

11/30/2010 – v2010.1.5 (Validator channel 102) – This XSD is now generated from a higher level modeling language:

1. XSD no longer requires tags to be in order.
2. Every tag is no longer required. XSD is less restrictive and it will allow a missing tag. However, Validator will enforce that a tag must exist. The only mandatory XSD tags are LastModifiedDateTime, FacilityId, and PatientId.
3. An empty list (e.g. ProtectiveDevices) does not produce an error any longer.

11/8/2010 – v2010.1.5 (Validator channel 102)

1. minOccurs
 - a. Remove minOccurs on NtdsRecord
 - i. Change minOccurs from 1 to 0
`<xs:element name="NtdsRecord" minOccurs="0" maxOccurs="unbounded">`
2. Updated the NtdsVersion to v2010.1.5 (to match Sdk version channel 102)
3. Removed ICD10 pattern support as it will reappear in a new version of the XSD specifically designed to support ICD10.
 - a. Injury Diagnosis
`<xs:pattern value="((([vV]|[0-9])\d{2}(\.\d{1,2})?))|((([a-t]|[A-T])\d{2,4}))"/>`
Changed to
`<xs:pattern value="((([vV]|[0-9])\d{2}(\.\d{1,2})?))"/>`
 - b. HospitalProcedure
 - i. `<xs:restriction base="xs:string">`
`<xs:minLength value="4"/>`
`<xs:maxLength value="7"/>`
`<xs:pattern value="(\d{2}\.\d{1,2})|(\d{7})"/>`
`</xs:restriction>`
 - ii. Changed to
`<xs:restriction base="xs:string">`
`<xs:minLength value="4"/>`
`<xs:maxLength value="5"/>`
`<xs:pattern value="(\d{2}\.\d{1,2})"/>`
`</xs:restriction>`
 - c. PrimaryECode
`<xs:pattern value="((\d{3}(\.\d{1})?))|(([vVwWxXyY]\d{2,4}))"/>`
Changed to
`<xs:pattern value="((\d{3}(\.\d{1})?))"/>`
4. EmsRespiratoryRate – Changed max from 99 to 120
5. RespiratoryRate – Changed max from 99 to 120

6/4/2010 – v2010.1.4

1. Updated the following menu descriptions which were out of sync with the Data Dictionary

XSD tagname	MENU_DESCRIPTION	MENU_VALUE
AlcoholUseIndicators	No (not tested)	1
DeathInEd	DOA: Declared dead on arrival with minimal or no resuscitation attempt (no invasive procedures attempted)	1
HospitalDischargeDisposition	Discharged/Transferred to a short-term general hospital for inpatient care	1
HospitalDischargeDisposition	Discharged/Transferred to an Intermediate Care Facility (ICF)	2
HospitalDischargeDisposition	Discharge/Transferred to home under care of organized home health service	3
HospitalDischargeDisposition	Left against medical advice or discontinued care	4
DrugUseIndicator	No (not tested)	1

03/19/09 – v2010.1.3

1. Enumerated lists for GcsMotor and GcsVerbal
2. In the annotation of some elements, the word “patient’s” had a single quote mark instead of an apostrophe. All instances of the single quote mark were replaced with an apostrophe.

11/23/09 – v2010.1.2

2. Updated the NtdsVersion to v2010.1.2 (to match Sdk version channel 102)
3. TotalCuLos: Change the minimum constraint from 0 to 1, as 0 is not valid.
4. TotalVentDays: Change the minimum constraint from 0 to 1, as 0 is not valid.

11/23/09 – v2009.1.1

1. Updated the NtdsVersion to v2009.1.1 (to match Sdk version channel 101)

11/1/08 – v1.2.5

1. Updated the NtdsVersion to v1.2.5 (to match Sdk version)
2. EmsRespiratoryRate and RespiratoryRate – changed the max from 59 to 99.
3. EmsSbp and Sbp – changed the max from 299 to 300.
4. Changed the maxOccurs for Complications from 10 to 25.
5. Changed the maxOccurs for Comorbidities from 5 to 23.
6. HospitalProcedure – corrected minLength from 1 to 4. Changed maxLength from 5 to 7 to allow icd10 codes.
7. Changed text for BIU 2 from “Not Known” to “Not Known/Not Recorded”
8. Commented out BIU 3 as it is no longer applicable.
9. Added format checks (Pattern value) for both ICD9 and ICD10 for InjuryDiagnosis, HospitalProcedure, PrimaryEcode, and AdditionalEcode.

Example:

```

simpleType name="InjuryDiagnosis">
<xs:union memberTypes="Blank">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="3"/>
      <xs:maxLength value="6"/>
      <xs:pattern value="((([vV]|[0-9])d{2})(\.\d{1,2})?)|((([a-t][A-T])d{2,4}))"/>

```

```
</xs:restriction>
</xs:simpleType>
</xs:union>
```

4/3/08 - v1.2.4

5. Updated the NtdsVersion to v1.2.4 (to match Sdk version)
6. Temperature – changed from integer to decimal and enforce one decimal place. Updated min to 0.0 and max to 45.0.

2/29/08 – v1.2.3

2. Updated the NtdsVersion to v1.2.3 (to match Sdk version)
3. AlcoholUseIndicators – changed enumerated value 1 from 'No (not suspected)' to 'No (not suspected, not tested)'
4. DrugUseIndicator – changed enumerated value 1 from 'No (not suspected)' to 'No (not suspected, not tested)'
5. HospitalComplication
 - a. Changed enumerated value 14 from 'Deep Vein Thrombosis DVT / thrombophlebitis' to 'Deep Vein Thrombosis (DVT) / thrombophlebitis'.
 - b. Changed enumerated value 17 from 'Intracranial pressure elevation' to 'Intracranial pressure'.
6. Temperature – changed the range from 0 to 120 to 0 to 45.
7. AisSeverity – Added enumerated value 9 'Not Possible to Assign'
8. Various spelling corrections.

1/23/08 – v1.2.1

1. AisCodes, AisVersion, IssLocal – added minOccurs = 0
2. Updated the NtdsVersion to v1.2.1

12/03/07 – v1.2.0

1. Changed xs:all to xs:sequence for Hospital Complications. The line below was not validating because the <maxOccurs> indicator can only be set to 1 when using the <all> indicator.

```
<xs:element name="HospitalComplications">
  <xs:complexType>
    <xs:all> -- changed this line
    <xs:element name="item" maxOccurs="10"> -- error line
```

11/26/07

1. Changed InterFacilityTransfer and SupplementalOxygen enumerated values from 0 and 1 to 1 and 2 (to match the DD).
2. HospitalProcedure changed max length from 6 to 5.
3. Various documentation / annotation corrections.
 - a. Corrected enumeration values and descriptions to match the DD
 - DrugUseIndicator (value 2)
 - PatientsOccupationalIndustry (values 11 and 14)
 - EdDischargeDisposition (value 8)
 - b. HospitalArrivalTime - Changed to use the Time simple type and comment out the 'HospitalArrivalTime' simple type
 - c. Commented out the below simple types since they are no longer used (these were replaced with the Time simpleType):
 - EmsLeftTime
 - EmsArrivalTime

IncidentTime
EmsNotifyTime
EdDischargeTime
HospitalProcedureStartTime
HospitalDischargeTime

11/13/07

1. InjuryDiagnosis changed max from 5 to 6.

11/6/2007

1. Bound Race at 2 items
2. Ethnicity becomes a single item – no longer a List
3. Add the following new elements:
 - IncidentCountry same data type as PatientCountry
 - AisPredot, AisSeverity, IssRegion, AisVersion, IssLocal – no biu since optional
4. OtherTransport bounded to 5 items
5. SBP (Field and ED) range now 0 to 299
6. PulseRate (Field and ED) range now 0 to 299
7. RespRate (Field and ED) range now 0 to 59
8. Temperature range now 0 to 120
9. Procedures bounded to 200 items
10. Diagnoses bounded to 50 items
11. ProtectiveDevices bounded to 10 items
12. AirbagDeployments bounded to 4 items
13. Removed Facility elements
14. Commented out HomeZip and InjuryZip simple types since they weren't being used and changed the Zip simple type to require min 5 digits or max 5 + "-" + 4 digits.
15. Complications bounded to 10 items.

9/6/2007

1. Valid range for Age changed to 0 - 120.
2. Valid range for EmsTotalGcs and TotalGcs changed to 3 - 15.
3. LocationECode minExclusive = 0 changed to minInclusive = 0 to include 0 as a valid value.
4. HomeCountry changed to 2 character string with pattern A - Z.
5. HomeState and IncidentState changed to both be a 2 character string with pattern 0 - 9.
6. HomeCounty and IncidentCounty changed to both be a 3 character string with pattern 0 - 9.
7. HomeCity and IncidentCity changed to both be a 5 character string with pattern 0 - 9.
8. ComorbidCondition, PatientsOccupationalIndustry, EdDischargeDisposition, DeathInEd, and HospitalComplication all changed to type integer.
9. PrimaryEcode and AdditionalEcode changed to be type string with minimum 3 maximum 5 characters.
10. InjuryDiagnosis changed to introduce a minimum of 3 characters and a maximum of 5.

8/17/2007

1. RespiratoryAssistance was missing from the XSD (the type was declared only).
2. Various documentation / annotation corrections.