

# Iowa Behavioral Health Reporting System Tip: Updating Non-SRI Entities

Authorship – Bureau of Substance Abuse Prepared By – FEI Systems & IDPH Last Updated – April 25, 2022



# 1 Introduction and Background

This document describes how to update certain entities in IBHRS. The information contained in this document applies to both XML and Data Entry users. If you have not yet done so, you should read the IBHRS Provider Submission Guide, as it contains background information that is necessary to understand this document.

# 1.1 Key Fields

As you may recall from the IBHRS Provider Submission Guide, an entity is a "top-level" object (like a Client or a Treatment Episode). A sub-entity is an object contained within one of those objects (like a Care Status) or contained within a sub-entity (like a SubstanceUsed record). If a parent entity or sub-entity may contain more than one of a particular sub-entity, that sub-entity must have a **key field.** The Key Field is used to identify, update, and delete the sub-entity. As an example, if you had the entity "Street" with a sub-entity "House", the key field might be House Number. So you might have something like:

Entity: Mulberry Street				
House Number (Key Field)	House Color	Roof Color		
1	Blue	Brown		
2	Red	Gray		
3	White	Black		
4	Green	Brown		
5	Yellow	Black		

If we want to indicate that one of the houses changed color, we can say "House 4 is now purple" and the system will know what we want to update. If we want to delete a house, we can say "Delete House 4" and it's deleted. **The Key Field is used to determine whether a record exists, and if it does, which record to update or delete.** For Data Entry, this is handled behind the scenes by adding, updating, or deleting a sub-entity, you just perform those actions on the sub-entity. For XML reporting, the Key Field is used in creating, modifying, and deleting sub-entities (see example below).

For example, in XML, to change House #1 to have a black roof the XML would be:

```
<Street>

<Name>Mulberry Street</Name>

<Houses>

<House>

<StreetNumber>1</StreetNumber>

<RoofColor>Black</RoofColor>

</House>

</Houses>

</Street>
```

Note that only the changes were supplied. Since the Key Field (Street Number) matches an existing record, the system interprets this as an update. Whereas if the following XML were sent:

```
<Street>

<Name>Mulberry Street</Name>

<Houses>

<House>

<StreetNumber>12</StreetNumber>

<RoofColor>Black</RoofColor>

</House>

</Houses>
```

</Street>

That would create a **new** house, #12, because that SRI doesn't exist. #12 would have no house color, only a roof color.

Finally, Key Fields are used when **deleting** a record. To delete a sub-entity, you must supply the value for the key field. For example:

```
<Street>

<Name>Mulberry Street</Name>

<Houses>

<House action="delete">

<StreetNumber>2</StreetNumber>

</House>

</Houses>
```

#### </Street>

Again, the value of the Key Field is used to indicate which record to delete.

Because of the ways that Key Fields are used, they can **never** be changed. Since you must supply a key field value to indicate which record you want to change, you can't change that value, because it's being used to identify the record you're trying to modify.

# **1.2 Source Record Identifiers**

A Source Record Identifier (SRI) is a **non-changing, unique identifier** for an entity or sub-entity. Sometimes these are an inherent attribute of the entity, sometimes these are an arbitrary identifier. **Most Key Fields are SRIs. All SRIs are Key Fields.** 

# 2 Delete-to-Modify Entities

When the key field for a sub-entity is **not** an SRI, you must **delete the sub-entity and add a new one if you need to change the value of the key field.** Because some sub-entities are required, it's recommended that you do this in a single transaction (i.e. include both the delete action and the new record). In some sub-entities (like Provider Client Email Address), the key field is the only field in the entity. For those sub entities, there is no way to "update" them, you must delete the old value and submit a new one. For all other sub-entities with a non-SRI key field, you must delete the sub-entity record and add the updated one only if you want to change the key field.

Entity Name	Key Field(s)	Notes	Examples		
Provider Client Identifier	Type Code		Without Deleting:		
			Field	Old Value	New Value
			Type Code	8400.1	8400.1
			Identifier	111-22-1234	222-33-4567
Provider Client Email Address	Email Address	Key Field is the only field			
Provider Client Race	RaceCode				
Provider Client Phone	Type Code				
Provider Client Physical	Type Code				
Address					
Special Initiative	Start Date, Type Code	There are two key fields to Special Initiative. If <b>either one</b> must change, delete the entity and recreate it.			
Screening Results	Program Area Code				
Recovery Group	Group Type Code				
Mental Health Symptom	Symptom Code				

Entity Name	Key Field(s)	Notes	Examples
Medication Assisted	Medication Type Code	Key Field is the	
Treatment		only field	
Stage of Change	Program Area Code		
Quality of Life Measure	Measure Code		
Gambling Wager Activity	Activity Type Code		
Туре			
Gambling Wager Activity	Location Code	Key Field is the	
Location		only field	
Tuberculosis Risk	Type Code		
Response			
Service Event Procedure	Sequence Number		
Modifier			
Service Event Care Status	Care Status SRI	Key Field is the	
		only field	

# 2.1 Examples:

# **Provider Client Identifier**

# Key Field: Type Code

Non-Delete example: A Client Identifier with Type Code 8400.1 (Social Security Number) was created. The Social Security Number was entered "0000" as a placeholder because the patient did not feel comfortable sharing it. The record is later updated with the patient's actual Social Security Number. Delete-and-re-enter example: A Client Identifier with Type Code 8400.4 (Medical Record Number) was created. The Identifier value is actually the client's Social Security Number. Because the Type Code cannot be changed, the 8400.4 record is deleted and an 8400.1 record (i.e. Social Security Number) is created.

# **Provider Client Email Address**

#### Key Field: Email Address

Non-Delete example: n/a (Email Address is the only field. Entries can't be changed; you must delete the incorrect one and add the correct one.) Delete-and-re-enter example: A Provider Client Email Address is entered as <u>user1234@yahoo.com</u> and should have been <u>user1234@gmail.com</u>. The Email Address record must be deleted and re-added, because Email Address is the only field.

# **Provider Client Race**

#### Key Field: RaceCode

**Non-Delete example:** A Provider Client Race record with Race Type = 2100.3 (Other) and Race = 6800.7 (Asian) is entered. The Race Code was correct, but the Race Type should be 12600.1 (Primary). The Race Type may be changed, using Race Code as the key field. **Note:** 

• In this example, whatever record had Race Type = Primary must be updated to Race Type = Other, as a record may only have one Primary race record.

- For example, it could be changed from
  - Record 1: Race Type = 12600.1(Primary), Race = 6800.1 (White)
  - Record 2: Race Type = 2100.3 (Other), Race= 6800.7 (Asian)

То

- Record 1: Race Type = 2100.3(Other), Race = 6800.1 (White)
- Record 2: Race Type =12600.1 (Primary), Race= 6800.7 (Asian)

**Delete-and-re-enter example:** A Provider Client Race record was entered with a Race Code of 2100.6 (Refused). The client later changed their mind and provided their race as 6800.1 (White). This is the only race record for this client, and it is the Primary record. The "Refused" record must be deleted and the "White" record must be created because the value of the key field (Race) cannot be changed.

#### XML Example:

- <ClientDataSet>
  - <ProviderClients>
    - <ProviderClient>
      - <SourceRecordIdentifier>407145-PV1-CL47</SourceRecordIdentifier>
      - <ProviderSourceRecordIdentifier>1392</ProviderSourceRecordIdentifier>
      - < ProviderClientRaces>
        - <ProviderClientRace action="delete">
          - <!--This is the original Primary Race to be deleted-->
          - <TypeCode>12600.1</TypeCode>
          - <RaceCode>6800.2</RaceCode>
          - </ProviderClientRace>
        - <ProviderClientRace>
          - <!--This is the new Primary Race to be inserted-->
          - <TypeCode>12600.1</TypeCode>
          - <RaceCode>6800.3</RaceCode>
        - </ProviderClientRace>
        - <ProviderClientRace>
          - <TypeCode>2100.3</TypeCode>
          - <RaceCode>6800.1</RaceCode>
        - </ProviderClientRace>
        - </ProviderClientRaces>
  - </ProviderClient>
  - </ProviderClients>
  - </ClientDataSet>

#### **Provider Client Phone**

#### Key Field: Type Code

**Non-Delete example:** A Provider Client Phone record with Phone Type = 8500.1 (Work) and Phone Number = 202-555-1212 is entered. This is incorrect; the client's Work number is 202-555-1234. The Phone Number value may be changed, using Type Code as the key field.

**Delete-and-re-enter example** A Provider Client Phone record with Phone Type = 8500.1 (Work) and Phone Number = 202-555-1212 is entered. This is incorrect; the number is correct but this is the Client's Home phone. A new record must be submitted with the correct Type Code because the Type Code cannot be updated.

#### XML Example:

- <ClientDataSet>
  - <ProviderClients>
    - < ProviderClient>
      - <SourceRecordIdentifier>403021-Provider01-Client01</SourceRecordIdentifier>
      - <ProviderSourceRecordIdentifier>1392</ProviderSourceRecordIdentifier>
      - <BirthDate>1995-03-21</BirthDate>
      - <FirstName>Genmaicha</FirstName>
      - <MiddleName>Oiocha</MiddleName>
      - <LastName>Matcha</LastName>
      - <SexCode>8300.1</SexCode>
      - <GenderIdentityCode>11200.1</GenderIdentityCode>
      - <SexualOrientationCode>11300.1</SexualOrientationCode>
      - <EthnicityCode>6900.5</EthnicityCode>
      - + < ProviderClientIdentifiers>
      - + < ProviderClientEmailAddresses>
      - + < ProviderClientRaces>
      - <ProviderClientPhones>
        - <ProviderClientPhone>
          - <TypeCode>8500.3</TypeCode>
          - <PhoneNumber>999-302-2101</PhoneNumber>
          - </ProviderClientPhone>
        - <ProviderClientPhone action="delete">
          - <TypeCode>8500.2</TypeCode>
          - <PhoneNumber>999-320-4417</PhoneNumber>
        - </ProviderClientPhone>
        - </ProviderClientPhones>
      - + < ProviderClientPhysicalAddresses>
      - </ProviderClient>

#### **Provider Client Physical Address**

Key Field: Type Code

**Non-Delete example:** A Provider Client Physical Address record with Address Type = 8600.1 (Primary) and First Street Address = 490 Main St. is entered. This is incorrect; the client's address is 490 Maple St. The value for First Street Address may be changed because it's not a key field.

# XML Example:

- <ClientDataSet>
  - <ProviderClients>
    - <ProviderClient>
      - <SourceRecordIdentifier>407145-PV1-CL47</SourceRecordIdentifier>
      - <ProviderSourceRecordIdentifier>1392</ProviderSourceRecordIdentifier>
      - <ProviderClientPhysicalAddresses>
        - <ProviderClientPhysicalAddress>
          - <TypeCode>8600.1</TypeCode>

-Keep the Primary TypeCode, and just change below values that need to be updated-->

<FirstStreetAddress>1234 Bakery Ave.</FirstStreetAddress>

- <SecondStreetAddress>Apt. 456</SecondStreetAddress>
- <CityName>Cedar Rapids</CityName>

<StateCode>1600.IA</StateCode>

<PostalCode>52411</PostalCode>

<CountyCode>13200.57</CountyCode>

</ProviderClientPhysicalAddress>

</ProviderClientPhysicalAddresses>

</ProviderClient>

</ProviderClients>

</ClientDataSet>

**Delete-and-re-enter example** A Provider Client Physical Address record with Address Type = 8600.2 (Homeless) is submitted. The patient now has permanent housing. The "Homeless" record must be deleted and a new Address record with an Address Type of 8600.1 (Primary) should be entered.

#### XML Example:

- <ProviderClients>
  - <ProviderClient>
    - <SourceRecordIdentifier>407145-PV1-CL48</SourceRecordIdentifier>
    - <ProviderSourceRecordIdentifier>1392</ProviderSourceRecordIdentifier>
    - <BirthDate>1999-03-12</BirthDate>
    - <FirstName>Mungbean</FirstName>
    - <MiddleName>C</MiddleName>
    - <LastName>Pastry</LastName>
    - <SexCode>8300.1</SexCode>
    - <GenderIdentityCode>11200.1</GenderIdentityCode>
    - <SexualOrientationCode>11300.1</SexualOrientationCode>
    - <EthnicityCode>6900.5</EthnicityCode>
    - + < ProviderClientIdentifiers>
    - + < ProviderClientEmailAddresses>
    - + < ProviderClientRaces>
    - + < ProviderClientPhones>
    - <ProviderClientPhysicalAddresses>
      - - </ProviderClientPhysicalAddress>
      - <ProviderClientPhysicalAddress>
        - <TypeCode>8600.1</TypeCode>
        - <FirstStreetAddress>3456 Green Ln.</FirstStreetAddress>
        - <SecondStreetAddress>Suite 12</SecondStreetAddress>
        - <CityName>Cedar Falls</CityName>
          - <StateCode>1600.IA</StateCode>
        - <PostalCode>50614</PostalCode>
        - <CountyCode>13200.1</CountyCode>
      - </ProviderClientPhysicalAddress>
  - </ProviderClientPhysicalAddresses>
  - </ProviderClient>
  - </ProviderClients>

#### **Special Initiative**

Key Field: Start Date, Type Code

**Non-Delete example:** A Special Initiative record was entered but no End Date was provided. The Special Initiative record is updated, using the Start Date and Type Code as the keys.

**Delete-and-re-enter example:** The Start Date for a Special Initiative was entered incorrectly. Because Start Date is a key field, the Special Initiative record must be deleted and re-added to update it.

# **Screening Results**

Key Field: Program Area Code

**Non-Delete example:** A Screening Results record was entered with an incorrect Recommended Level of Care code. The Level of Care code can be updated, using the Program Area Code as a key.

**Delete-and-re-enter example:** A Screening Result record was entered with a Program Area Code of Gambling, and it should have been Substance use disorder treatment. The record must be deleted and re-created with the correct Program Area Code.

# **Recovery Group**

Key Field: Group Type Code

**Non-Delete example:** A Recovery Group record was entered with an incorrect value for "Number of Days Attended". The record may be updated using the Group Type Code as the key.

Delete-and-re-enter example: A Recovery Group record was entered with an incorrect Group Type Code. The record must be deleted to update it.

# **Mental Health Symptom**

#### Key Field: Symptom Code

**Non-Delete example:** A Mental Health Symptom record was entered with an incorrect value for "". The record may be updated using Symptom Code as the key field.

**Delete-and-re-enter example:** A Mental Health Symptom record was entered and Symptom Code was incorrect. The record must be deleted and re-added with the correct value for Symptom Code.

# **Medication Assisted Treatment**

Key Field: Medication Type Code

Non-Delete example: n/a – Medication Type Code is the only field.

**Delete-and-re-enter example:** A Medication Assisted Treatment record was entered and Medication Type Code was incorrect. The record must be deleted and re-added with the correct value for Medication Type Code.

# **Stage of Change**

# Key Field: Program Area Code

**Non-Delete example:** A Stage of Change record was entered with an incorrect value for "". The record may be updated using Stage of Change as the key field. **Delete-and-re-enter example:** A Stage of Change record was entered and Stage of Change was incorrect. The record must be deleted and re-added with the correct value for Stage of Change.

#### **Quality of Life Measure**

Key Field: Measure Code

**Non-Delete example:** A Quality of Life Measure record was entered with an incorrect value for Rating Code. The record may be updated using Measure Code as the key field.

**Delete-and-re-enter example:** A Quality of Life Measure record was entered and Measure Code was incorrect. The record must be deleted and re-added with the correct value for Rating Code.

# XML Example:

- <TreatmentEpisodeDataSet>

# - <ProviderTreatmentEpisodes>

- < ProviderTreatmentEpisode>
  - <SourceRecordIdentifier>407145-TE1</SourceRecordIdentifier>
  - <ProviderSourceRecordIdentifier>1392</ProviderSourceRecordIdentifier>
  - <ClientSourceRecordIdentifier>407145-PV1-CL47</ClientSourceRecordIdentifier>
  - <CareStatuses>
    - <CareStatus>
      - <SourceRecordIdentifier>407145-CS1</SourceRecordIdentifier>
      - <ProviderSiteSourceRecordIdentifier>Abbe Site 1</ProviderSiteSourceRecordIdentifier>
      - <StatusDate>7/29/2021</StatusDate>
      - <StatusCode>20900.3</StatusCode>
      - <ProgramAreaCode>11400.2</ProgramAreaCode>
      - <PerformanceOutcomeMeasures>
        - <PerformanceOutcomeMeasure>
          - <SourceRecordIdentifier>407145-OM1</SourceRecordIdentifier>
          - <PerformanceOutcomeMeasureDate>7/29/2021</PerformanceOutcomeMeasureDate>
          - <QualityOfLifeMeasures>
            - <!--Please always keep all the MeasureCodes on the same file-->
            - <QualityOfLifeMeasure>
              - <MeasureCode>20600.1</MeasureCode>
              - <RatingCode>21200.7</RatingCode>
            - </QualityOfLifeMeasure>
            - <QualityOfLifeMeasure>
              - <!--Please keep the MeasureCode, and make a change to the RatingCode only for corrections-->
              - <MeasureCode>20600.2</MeasureCode>
              - <RatingCode>21200.7</RatingCode>
            - </QualityOfLifeMeasure>
            - <QualityOfLifeMeasure>
              - <MeasureCode>20600.3</MeasureCode>
              - <RatingCode>21200.7</RatingCode>
            - </QualityOfLifeMeasure>
            - <QualityOfLifeMeasure>

#### **Gambling Wager Activity Type**

#### Key Field: Activity Type Code

**Non-Delete example:** A Gambling Wager Activity Type record was entered with an incorrect value for First Wager Age. The record may be updated using Activity Type Code as the key field.

**Delete-and-re-enter example:** A Gambling Wager Activity Type record was entered and Activity Type Code was incorrect. The record must be deleted and re-added with the correct value for Activity Type Code.

#### **Gambling Wager Activity Location**

#### Key Field: Location Code

**Non-Delete example:** n/a – Location Code is the only field **Delete-and-re-enter example:** A Gambling Wager Activity Location record was entered and Location Code was incorrect. The record must be deleted and readded with the correct value for Location Code.

#### **Tuberculosis Risk Response**

#### Key Field: Type Code

**Non-Delete example:** A Tuberculosis Risk Response record was entered with an incorrect value for Location Code. The record may be updated using Type Code as the key field.

**Delete-and-re-enter example:** A Tuberculosis Risk Response record was entered and Type Code was incorrect. The record must be deleted and re-added with the correct value for Type Code.

#### **Service Event Procedure Modifier**

#### Key Field: Sequence Number

**Non-Delete example:** A Service Event Procedure Modifier record was entered with an incorrect value for Modifier Code. The record may be updated using Sequence Number as the key field.

**Delete-and-re-enter example:** A Service Event Procedure Modifier record was entered and Sequence Number was incorrect. The record must be deleted and readded with the correct value for Sequence Number

#### **Service Event Care Status**

#### Key Field: Care Status SRI

Non-Delete example: n/a – Care Status SRI is the only field.

**Delete-and-re-enter example:** A Service Event Care Status record was entered and with the wrong Care Status SRI. The record must be deleted and re-added with the correct value for Care Status SRI. Note that even though this is an instance where the Key Field is an SRI, it's a SRI that references something else, not an inherent identifier.

#### **Treatment Episode Care Status**

Key Field: Treatment Episode Care Status

Non-Delete example: n/a.

**Delete-and-re-enter example:** A Treatment Episode Care Status record was entered and was erroneous somehow. The record must be deleted and re-added with the correct values.

XML Example:

- <TreatmentEpisodeDataSet>
  - <ProviderTreatmentEpisodes>
    - <ProviderTreatmentEpisode>
      - <SourceRecordIdentifier>407145-TE1</SourceRecordIdentifier>
      - <ProviderSourceRecordIdentifier>1392</ProviderSourceRecordIdentifier>
      - <ClientSourceRecordIdentifier>407145-PV1-CL47</ClientSourceRecordIdentifier>
      - <CareStatuses>
        - <CareStatus action="delete">

--All associated sub-entities, such as POMs under this Care Status will be marked as deleted--->

- <SourceRecordIdentifier>407145-CS1</SourceRecordIdentifier>
- <ProviderSiteSourceRecordIdentifier>Abbe Site 1</ProviderSiteSourceRecordIdentifier>

<StatusDate>7/29/2021</StatusDate>

- <StatusCode>20900.3</StatusCode>
- <ProgramAreaCode>11400.2</ProgramAreaCode>
- </CareStatus>
- </CareStatuses>
- </ProviderTreatmentEpisode>
- </ProviderTreatmentEpisodes>
- </TreatmentEpisodeDataSet>