Activity Prescription Form (APF) Implementation Guide

APF Implementation Guide for external systems

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1 Introduction

This document provides guidelines for implementing Activity Prescription Form (APF) in external systems (e.g., medical providers' EMR systems) to facilitate exchange of APF data with L&I via *One*HealthPort HIE.

1.1 Document Purpose

APF data mappings are based on the HL7 CDA R2 schema for "Subsequent Evaluation Note" template (aka "Progress Note" template). To meet APF requirements, Progress Note template is further constrained with data conformance rules, namespaces, conventions and value sets.

Purpose of this document is to explain these conformance rules, namespaces, conventions and value sets used for APF data mappings for exchanging APF data with L&I.

1.2 Scope

Scope of this document is limited to data conformance rules, namespaces, conventions and value sets used for APF data mappings in addition to Progress Note template constraints.

APF data mappings are based on CDA R2 schema for the Progress Note template. This document does not explain implementation requirements/constraints for the Progress Note template. Please refer to the IHE Health Story Consolidation Implementation Guide available at HL7 website for implementation guidelines related to Progress Note.

Further, actual implementation in external systems is outside the scope of this document as that will vary for different systems/business practices. Primary focus of this document is on the exchange format and elements of exchanged document only.

1.3 Intended Audience

- Business stakeholders of external systems implementing APF functionality
- IT Staff implementing APF functionality in external systems
- OHP HIE
- L&I Business stakeholders for APF as data
- L&I IT Staff implementing APF as data functionalities

1.4 Definitions, Acronyms and Abbreviations

APF – **A**ctivity **P**rescription **F**orm

CDA R2 – **C**linical **D**ocument **A**rchitecture (**R**elease **2**)

COHE – **C**enter of **O**ccupational **H**ealth and **E**ducation

EHR – **E**lectronic **H**ealth **R**ecord

EMR – **E**lectronic **M**edical **R**ecord

HIE – **H**ealth **I**nformation **E**xchange

HL7 – **H**ealth **L**evel **7**

OHMS – **O**ccupational **H**ealth **M**anagement **S**ystem

OHP – ***O****ne***H**ealth**P**ort (WA State HIE provider)

OID – **O**bject **Id**entifier

ROA – **R**eport **O**f **A**ccident

XML – E**x**tensible **M**arkup **L**anguage

2 Implementation Guide

Listed below are guidelines for APF data exchange format and guidelines.

2.1 Sample Document

A sample document with headers/body sections is provided with this implementation guide. Sample document also comes with the default HL7 CDA transformation applied to render it in XSL aware browsers (e.g. Internet Explorer) as HTML. In actual messages, this XSL transform should not be present.

2.1.1 Sample Document Usage

Primary purpose of sample APF XML document provided with these implementation guidelines is to illustrate the layout/format of document conforming to these guidelines. Please note the following when using this sample document:

i. `<?xml-stylesheet type="text/xsl" href="styles/CDA.xsl"?>` directive on top of the sample xml document is only for viewing it in a XSL aware browser (e.g. Internet Explorer). This **should not be** present in actual XML documents being generated for data exchange.

ii. Comments in the sample XML document are only for providing additional information to assist in development of exchange documents. These **should not be** present in actual XML documents being generated for data exchange. Comments are enclosed in <!-- --> tags. E.g. `<!-- US General Header realmCode. Fixed - Not to be changed. -->`

iii. Some nodes in sample xml document are not discussed in this implementation guide. Usually, these codes are only needed for “human readable format” rendering of exchange data using standard CDA R2 stylesheets. These should be present in the exchange data as is. E.g. <title> tag with a value of Activity Prescription Form, <languageCode> tag with en-US code etc.

iv. Values in sample xml document are for illustration purpose only and provide a visual representation of constraints defined in this implementation guide. Actual values will be populated from the systems of records on sender side.

2.1.2 General Guidelines

i. The XML document has to **enforce UTF-8** encoding in the xml declaration.

ii. Only "State Funded" documents are processed, to identify the document as "State Funded or Self-Insured" the *optional element in "receivedOrganisation" added under intendedRecipent. (Section 2.2.9)*

iii. The element tag "*assignedAuthoringDevice*"under author (section 2.2.6) is optional to provide information from provider to identify the system or device (EMR) this document generated.

   a. If the above tag is used the respective details will be added in the acknowledgement to provider.

2.2 Header Constraints

In addition to HL7 CDA R2 Progress Note constraints, following are header constraints specific to APF document schema. These constraints must be followed to ensure successful processing of APF at L&I.

2.2.1 Templates

APF document will have following templateIds in the header:

i. US Realm header template (identified by fixed templateId/@root=" 2.16.840.1.113883.10.20.22.1.1") must be present.

ii. Progress Note template (identified by fixed templateId/@root=" 2.16.840.1.113883.10.20.22.1.9") must be present.

iii. APF V2 template (identified by fixed templateId/@root=" 2.16.840.1.113883.3.4819.11.1.1.2") must be present.

Sample:

```
<templateId root="2.16.840.1.113883.10.20.22.1.1"/> <!--US Realm Header-->
<templateId root="2.16.840.1.113883.10.20.22.1.9"/> <!--Progress Note-->
<templateId root="2.16.840.1.113883.3.4819.11.1.1.2"/> <!--APF V2 Template-->
```

2.2.2 ID

Header must have one <id> node present such that @root attribute has a globally unique document id (generated by the sending system) and @extension attribute mapped to L&I Claim Number. Per CDA R2 guidelines, @extension attribute is optional. However, for APF, @extension attribute is mandatory and must have the associated L&I claim number present.

Sample:

```
<id extension="AX12345" root="2.16.840.1.113883.19.5.99999.1"/>
```

In the above sample, AX12345 represents the L&I Claim number.

LNI Claim Number requirements:

i. Must be 7 characters in length

ii. Cannot contain special characters

iii. The following format will be accepted: [a-ruxyzA-RUXYZ][a-zA-Z0-9][0-9][0-9][0-9][0-9][0-9]
iv. Currently we do not accept Self insured claims, these start with [S,T,W], Example: SS09910

2.2.3 SetID

Document header must have one <setId> node present such that @root attribute has a globally unique identifier (generated by sending system) and @extension attribute mapped to L&I Claim Number. SetId node must be accompanied with a <versionNumber> node. setId remains the same across all updates to the same document.

Per CDA R2 guidelines, setId and associated versionNumber nodes are optional. However, these are required for APF document to facilitate future updates (if permissible) to APF document.

***Note:** In certain scenarios, sender systems may not have capability to track different versions of the document. In such case, setId values should be same as id node explained above and the versionNumber should always be set to 1.

setId works in conjunction with the id node described above. If the sending system is capable of sending updates to an existing APF document, each updated instance will have:

i. A globally unique id under <id> node
ii. Same unique id under setId node @root attribute
iii. Incremented value under versionNumber node

***Note (Special Handling):** In certain scenarios, sender systems may not have capability to track different versions of the document. In such case, setId values should be same as id node explained above and the versionNumber should always be set to 1 (even when sending updates to existing document).

Sample:

```
<setId extension="AX12345" root="2.16.840.1.113883.19.5.99999.19"/>
<versionNumber value="1"/>
```

SetId Use Example:

In the current example, first version of APF is sent with a unique id (under root attribute of id node) `2.16.840.1.113883.19.5.99999.1` and claim number `AX12345` under extension.

First version of document also has a setId with unique id (under root attribute of setId node) `2.16.840.1.113883.19.5.99999.19` and claim number `AX12345` under extension attribute.

First version of document is indicated by versionNumber node with attribute value set to 1 (`<versionNumber value="1"/>`).

Each subsequent update(s) to the APF will have a new unique id (under root attribute of id node) e.g. `2.16.840.1.113883.19.5.90900.1` for update to the original APF document.

However, the setId will still have the same value for its root attribute (i.e. `2.16.840.1.113883.19.5.99999.19` in this example). versionNumber attribute will be set to next value indicating update to the last updated document (`<versionNumber value="2"/>`). For first update, this will be set to 2, second update will be indicated by 3 and so on…

2.2.4 Effective Time

effectiveTime header indicates when the document was last modified in the sender system (modify timestamp). This entry must be precise to date and preferably should have Hr/Min + Time Zone values as well (if Hr/Min values are provided, it should also have Time Zone offset).

Sample:

```
<effectiveTime value="201402131320-0800"/>
```

Or

```
<effectiveTime value="20140213"/>
```

***Note (Special Handling):** This timestamp is used at L&I to determine the update version of document if sender system doesn't have capability for capturing version information of document (see SetId and version details above). Ideally, this should be last modified time stamp indicating when the document was last modified in the sender system. If last modified timestamp is not present, it can be the system/database current date timestamp at the time of document being picked up for sending to L&I.

2.2.5 recordTarget header

recordTarget header represents the patient information. This must have following:

i. at least one <patientRole> node
ii. <patientRole> node must have an
    a. a first <*id*> node having intended recipient information (***required***)

an **@root** attribute set to 1.3.6.1.4.1.38630.2.1.1.46 (OHP OID for L&I) , and

an **@extension** attribute set to f5tp1v00 (OHP Production server ID for L&I)

OR

an **@extension** attribute set to f5tp1v01 (OHP pre-production server ID for L&I).

This information is required by HIE to route the document to L&I.

id Examples:

For OHP Production OrgID for L&I:

```
<id root="1.3.6.1.4.1.38630.2.1.1.46" extension="f5tp1v00" />
```

For OHP UAT OrgID for L&I:

```
<id root="1.3.6.1.4.1.38630.2.1.1.46" extension="f5tp1v01" />
```

<id> node such that the @extension attribute contains the patient id in sender system

b. a **second** <***id***> representing the sender organization using OHP assigned OID and OrgID
***IMPORTANT**: The example below shows the information for the OHP Test account**.**

Sender organizations should replace the following <root> and <extension> values with the ones applicable to them

```
<id root="1.3.6.1.4.1.38630.2.1.1.15.3" extension="7uycso03"/>
```

c. a **third** <***id***> where extension represents PatientID, which can be alphanumeric, and root represents the unique identifier for the patient from Sender system. (***optional***)

```
<id root="2.16.840.1.113883.19.5.99999.2" extension="D1222398991" />
```

d. <***addr***> node with appropriate @use attribute. Nodes underneath <addr> node must have address information for the patient.
e. <***telecom***> node with @value and @use attributes set to phone number and phone number type respectively.
f. <***patient***> node with patient name information.
g. <***administrativeGenderCode***> and <***birthTime***> nodes with patient gender code (conforming to code system 2.16.840.1.113883.5.1) and birthTime (accurate to date).

Sample:

```
<recordTarget>
<patientRole>
	<id root="1.3.6.1.4.1.38630.2.1.1.46" extension="f5tp1v01" />
	<id root="1.3.6.1.4.1.38630.2.1.1.15.3" extension="7uycso03"/>
	<id root="2.16.840.1.113883.19.5.99999.2" extension="D1222398991" />
	<addr use="HP">
		<streetAddressLine>1234 Main Street</streetAddressLine>
		<city>Olympia</city>
		<state>WA</state>
		<postalCode>98512</postalCode>
		<country>US</country>
	</addr>
	<telecom value="(360)123-4567" use="HP"/>
	<patient>
		<name use="L">
		<given>Jane</given>
		<given>H.</given>
		<family>Doe</family>
		</name>
		<administrativeGenderCode code="F" codeSystem="2.16.840.1.113883.5.1"
		displayName="Female"/>
		<birthTime value="19980501"/>
	</patient>
</patientRole>
</recordTarget>
```

2.2.6 author header

author header represents the author information for the APF. Depending on the practice, this may be different from the attending provider (which is represented by the authenticator header below). Author header must have following:

i. <author> node must have a <time> node with @value attribute containing Date of Service.

ii. <assignedAuthor> node with at least one <id> node with @extension attribute set to the assigned person id (e.g., NPI or L&I Provider ID) in sender system and @root attribute set to the naming system (e.g. 2.16.840.1.113883.4.6 for NPI, 2.16.840.1.113883.3.4819.12.1.1 for L&I Issued Provider ID)

iii. <assignedAuthor> node must have and <addr> node with appropride values for author's address information.

iv. <assignedAuthor> node must have <telecom> node with appropriate @use and @value attributes set for author's phone number.

v. <assignedAuthor> node must have an <assignedPerson> node with author's name.

vi. <assignedAuthoringDevice> node is **optional** and may contain information to identify the system information the document is being processed.

```
<author>
  <time value="201402131320-0800"/>
  <assignedAuthor>
    <id extension="99999999" root="2.16.840.1.113883.4.6"/>
    <addr>
      <streetAddressLine>1234 Healthcare Street </streetAddressLine>
      <city>Olympia</city>
      <state>WA</state>
      <postalCode>98512</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="360-102-3435"/>
    <assignedPerson>
      <name>
        <given>Attending</given>
        <family>Provider</family>
      </name>
    </assignedPerson>
      <assignedAuthoringDevice>
            <manufacturerModelName>Good Health Medical
            Device</manufacturerModelName>
            <softwareName>Good Health Report Generator</softwareName>
      </assignedAuthoringDevice>
  </assignedAuthor>
</author>
```

2.2.7 custodian

custodian header entry must have an ID node such that the @root attribute has value of 2.16.840.1.113883.3.4819.12.1.1 (namespace for L&I issued Provider ID) and @extension attribute set to L&I issued Provider Id for the Clinic/Healthcare Facility.

Sample:

```
<custodian>
   <assignedCustodian>
     <representedCustodianOrganization>
       <id extension="99999999" root="2.16.840.1.113883.4.6"/><!-- NPI -->
       <id extension="1234567" root="2.16.840.1.113883.3.4819.12.1.1"/><!--
L&I Provider ID -->
       <name>Feasible HealthCare Providers</name>
```

```
        <telecom value="360-102-3435" use="WP"/>
        <addr use="WP">
          <streetAddressLine>1234 HealthCare Street </streetAddressLine>
          <city>Olympia</city>
          <state>WA</state>
          <postalCode>98512</postalCode>
          <country>US</country>
         </addr>
       </representedCustodianOrganization>
    </assignedCustodian>
 </custodian>
```

2.2.8 legalAuthenticator header

Please see IHE Health Story Consolidation Implementation Guide (under related artifacts) for implementation of legalAuthenticator header. Sample XML document contains a legalAuthenticator header to illustrate structure. Currently, at L&I, legalAuthenticator header is used only to determine legalAuthenticator signature (identified by signatureCode entry under legalAuthenticator).

Sample:

```
<legalAuthenticator>
  <time value="20140221130208-0800"/>
  <signatureCode code="S"/>
  <assignedEntity>
     <id extension="999999999" root="2.16.840.1.113883.4.6"/>
     <addr>
        <streetAddressLine>1111 Authenticator Grove</streetAddressLine>
        <city>Olympia</city>
        <state>WA</state>
        <postalCode>98512</postalCode>
        <country>US</country>
     </addr>
     <telecom use="WP" value="360-123-3456"/>
     <assignedPerson>
        <name>
           <given>Legal</given>
           <family>Authenticator</family>
        </name>
     </assignedPerson>
  </assignedEntity>
</legalAuthenticator>
```

2.2.9 Authenticator header

Authenticator header is optional for “Progress Note”. However, it’s required for APF document. Authenticator header must have:

i. An ID node such that the @root attribute is set to 2.16.840.1.113883.3.4819.12.1.1 (namespace for L&I issued Provider ID) and @extension attribute is set to L&I issued Provider Id of attending provider.

ii. A signatureCode node with value “S” indicating:
   a. sending organization/system’s possession of a signed copy (electronic or paper) of the document
   b. document is signed by attending provider

iii. The assignedEntity shall contain exactly one assignedPerson

a. This assignedPerson shall contain at least one name.
b. name shall
    i. contain exactly one family
    ii. contain at least one given
    iii. may contain zero or one prefix
    iv. may contain zero or one of the following suffixes to identify the credentials
        - Doctor
        - ARNP
        - PA-C

Sample:

```
<authenticator>
    <time value="20140218100501-0800"/>
    <signatureCode code="S"/>
    <assignedEntity>
          <id extension="99999999" root="2.16.840.1.113883.4.6"/><!-- NPI -->
          <id extension="1234567" root="2.16.840.1.113883.3.4819.12.1.1"/><!--
L&I Provider Id -->
       <addr>
          <streetAddressLine>1234 Medical Street</streetAddressLine>
          <city>Olympia</city>
          <state>WA</state>
          <postalCode>98512</postalCode>
          <country>US</country>
       </addr>
       <telecom use="WP" value="360-102-3435"/>
       <assignedPerson>
          <name>
             <given>Attending</given>
             <family>Provider</family>
            <suffix>ARNP</suffix>
          </name>
       </assignedPerson>
    </assignedEntity>
 </authenticator>
```

2.2.10 componentOf header

componentOf header is required for “Progress Note” as progress note is always tied to an encounter. componentOf header must have an encompassingEncounter. For APF, this encompassingEncounter is further constrained as below:

i. An id node with @root attribute tied to the claim identifier in sending system and @extension attribute set to L&I Claim Number.
ii. An effectiveTime/low entry indicating the **date of injury**. This entry must be precise to date. It can have Hr/Min values as well. If Hr/Min values are provided, it should also have Time Zone offset.

Sample:

```
<componentOf>
```

```
<encompassingEncounter>
   <id extension="AX12345" root="2.16.840.1.113883.19"/>
   <effectiveTime>
      <low value="20090227130000+0500"/>
      <high value="20090227130000+0500"/>
   </effectiveTime>
   <location>
         <healthCareFacility>
               <id root="2.16.840.1.113883.19.2" />
         </healthCareFacility>
   </location>
</encompassingEncounter>
</componentOf>
```

2.3 Data Conformance – APF Acceptance

Data conformance rules listed below are only limited to conformity of APF data exchange format. These rules define the minimum "acceptance" criteria (in addition to header constraints explained above) for APF at L&I and are only limited to required sections, templates etc.

APF documents failing to meet these "acceptance" criteria will be rejected and will not be processed by L&I systems.

2.3.1 Required Sections

CDA R2 Progress Note schema requires Assessment and Plan sections to be present. For APF, Assessment and Plan sections must be present separately. This is a constraint on Progress Note schema where Assessment and Plan sections must be present either separately or in one "Assessment and Plan" section. For APF, these must be present separately.

Implementation Guideline:

1. In the APF document, structuredBody/Assessment section (identified by fixed templateId/@root="2.16.840.1.113883.10.20.22.2.8") must be present.
2. In the APF document, structuredBody/Plan section (identified by fixed templateId/@root="2.16.840.1.113883.10.20.22.2.10") must be present.

2.3.2 Assessment section requirements for acceptance

Assessment section in APF must have at least one entry selected for Injured Worker's return to work status from following fields:

i. Worker is released to Job of Injury (JOI) without restriction
ii. Worker may perform modified duty
iii. Worker may work limited hours
iv. Worker is working modified duty or limited hours
v. Worker not released to any work
vi. Poor prognosis for return to work

Selection of “If released for modified duty, may work more than normal schedule” field doesn’t contribute towards Assessment Section acceptance criteria. One of the 6 fields listed above are needed to be present.

***Note:** Sample below is shown with ID attributes of table/td etc. These values follow a specific pattern for locally “codifying” the narrative text. ID attribute patterns are explained later in this document.

Sample:

```
<component>
 <section>
  <templateId root="2.16.840.1.113883.10.20.22.2.8"/>
  <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" code="51848-0"
displayName="ASSESSMENT"/>
  <title>ASSESSMENT</title>
  <text>
   <table ID="apf.assessment">
   <thead>
    <tr>
     <th>Assessment</th>
     <th>Value</th>
     <th>Hours</th>
     <th>From Date</th>
     <th>To Date</th>
    </tr>
   </thead>
   <tbody>
    <tr>
     <td ID="assessment.103.1.text">Worker may work limited hours</td>
     <td ID="assessment.103.1.value">Yes</td>
     <td ID="assessment.103.1.hours">6</td>
     <td ID="assessment.103.1.fromdate">20140311</td>
      <td ID="assessment.103.1.todate">20140315</td>
    </tr>
    <tr>
     <td ID="assessment.105.1.text">Worker not released to any work</td>
     <td ID="assessment.105.1.value">Yes</td>
     <td ID="assessment.105.1.hours"></td>
     <td ID="assessment.105.1.fromdate">20140211</td>
      <td ID="assessment.105.1.todate">20140310</td>
    </tr>
   </tbody>
   </table>
  </text>
 </section>
</component>
```

2.3.3 Plan Section Requirements for acceptance

At least one entry in Plan section, Claim Manager Notes or selection of “May need assistance returning to work” must be present/selected.

2.4 Best Practice Conformance – APF

***Note:** APF best practice measures may vary by best practices programs. With evolving best practices and business rules, these are subject to change. Please coordinate with your best practice contract manager at L&I to obtain full criteria applicable to your scenario. To ensure the best practice measures

are helped by your HIE implementation, please consider these best practice requirements when developing your user interface rules. These do not play a part in exchange of APF data.

2.5 Body Constraints

CDA R2 guidelines require all CDA R2 based documents to be renderable faithfully in a human readable form. This in turn implies that narrative texts for different body sections have the applicable information presented in CDA R2 schema for narrative texts sections (e.g., using <table>, <list> etc.).

APF exchange format discussed in this document follows the CDA R2 guidelines. Various sections of APF body are presented in this template using CDA R2 schema compliant elements so that the APF document can be rendered in a human readable form (HTML) using generic CDA R2 XSL transformation.

APF template further "codifies" these narrative texts using locally defined ids for various text elements. APF section mappings nad coding scheme are discussed in detail here.

2.5.1 Date fields within body sections

Unless otherwise specified, dates appearing within the body sections of APF document follow **yyyymmdd** format with optional HHMMSS section for 24 hr. time. When 24 hr. time is provided, it should also include the time zone information in the format yyyymmddHHMMSS-ZZzz (ZZzz indicates the time zone values, e.g. -0530 for UTC -05:30).

2.5.2 Section Mappings

"Progress Note" template sections that are used for APF are listed here. Table below lists the CDA R2 Template/Header mappings for various sections of APF. These are illustrated in a diagram also showing where various sections of APF paper form are mapped to CDA R2 templates.

APF Paper Form Segment	APF Paper Form Fields	CDA R2 Progress Note Headers/Templates	Template ID (where applicable)
General Info	Worker's Name	Header: recordTarget	N/A
	Patient ID	Header: recordTarget	N/A
	Visit Date	Header: effectiveTime	N/A
	Claim Number	Header: id Header: setId Header: componentOf	N/A
	Healthcare Provider's Name	Header: authenticator	N/A
	Date of Injury	Header: encompassingEncounter (under componentOf)	N/A

	Diagnosis	Template: Problems Section	2.16.840.1.113883.10.20.22.2.5
Released for work?	(All Fields)	Template: Assessment Section	2.16.840.1.113883.10.20.22.2.8
Key Objective Finding(s)	(All Fields)	Template: Objective Section	2.16.840.1.113883.10.20.21.2.1
Estimate what the worker can do	(All Fields)	Template: Instructions Section	2.16.840.1.113883.10.20.22.2.45
Other Restrictions / Instructions	(All Fields)	(Same as above)	2.16.840.1.113883.10.20.22.2.45
Employer Notified	Employer Notified of Capacities	Template: Interventions Section	2.16.840.1.113883.10.20.21.2.3
	Modified Duty Available	(Same as above)	2.16.840.1.113883.10.20.21.2.3
	Date of Contact	(Same as above)	2.16.840.1.113883.10.20.21.2.3
	Name of Contact	(Same as above)	2.16.840.1.113883.10.20.21.2.3
	Notes	(Same as above)	2.16.840.1.113883.10.20.21.2.3
Note to Claim Manager	(All Fields)	Template: Plans Section	2.16.840.1.113883.10.20.22.2.10
New Diagnosis	(All Fields)	Template: Interventions Section	2.16.840.1.113883.10.20.21.2.3
Opioids Prescribed	(All Fields)	(Same as above)	2.16.840.1.113883.10.20.21.2.3
Plans	(All Fields)	Template: Plans Section	2.16.840.1.113883.10.20.22.2.10
Sign	Signature	Header: Authenticator	N/A
	Phone Number	Header: Authenticator	N/A
	Date	Header: Authenticator	N/A
	Copy of APF Given to worker	Template: Instructions Section	2.16.840.1.113883.10.20.22.2.45
	Talking points discussed with worker	Template: Instructions Section	2.16.840.1.113883.10.20.22.2.45

State Fund Claim:
Department of Labor and Industries
PO Box 44291 Olympia WA 98504-4291

Self-Insured Claims: Contact the Self Insured Employer (SIE)/Third Party Administrator (TPA)
For a list of SIE/TPAs, go to www.Lni.wa.gov/SelfInsured

Activity Prescription Form (APF)

Billing Code: 1073 M (Guidance on back)

Reminder: Send chart notes and reports to L&I or SIE/TPA as required. Complete this form only when there are changes in medical status or capacities, or change in release for work status.

General info

Worker's Name: | Patient ID: | Visit Date: | Claim Number:

Healthcare Provider's Name (please print): | Date of Injury: | Diagnosis:

Document Header

Document Header

Problems Section

Required: Work status

☐ Worker is **released** to the job of injury (JOI) without restrictions (related to the work injury) as of (date): ____/____/____
(If selected, skip to "Plans" section below)

☐ Worker **may perform modified duty**, if available, from (date):
_____/_____/_____ to* _____/_____/_____ (*estimated date)

☐ If released to modified duty, may work more than normal schedule

☐ Worker **may work limited hours** from (date):
_____/_____/_____ to* _____/_____/_____ (*estimated date)

Assessment Section

☐ Worker **is working** modified duty or limited hours

☐ Worker **not released to any work** from (date): ____/____/____ **to*** __/____/____
(*estimated date)

☐ **Poor prognosis for return to work** at the job of injury at any date

Required: Measurable Objective Finding(s)
(e.g., positive x-ray, swelling, muscle atrophy, decreased range of motion)

Objective Section

Required: Estimate what the worker can do at work and at home unless released to JOI

How long do the worker's current capacities apply (estimate)?
☐ 1-10 days ☐ 11-20 days ☐ 21-30 days ☐ 30+ days ☐ permanent

Capacities apply all day, every day of the week, at home as well as at work.

Worker can: (Related to work injury) A blank space = Not restricted	Never	Seldom 1-10% 0-1 hour	Occasional 11-33% 1-3 hours	Frequent 34-66% 3-6 hours	Constant 67-100% (Not restricted)
Sit					
Stand / Walk					
Perform work from ladder					
Climb ladder					
Climb stairs					
Twist					
Bend / Stoop					
Squat / Kneel					
Crawl					
Reach Left, Right, Both					
Work above shoulders L, R, B					
Keyboard L, R, B					
Wrist (flexion/extension) L, R, B					
Grasp (forceful) L, R, B					
Fine manipulation L, R, B					
Operate foot controls L, R, B					
Vibratory tasks; high impact L, R, B					
Vibratory tasks; low impact L, R, B					

Instructions Section

Lifting / Pushing	Never	Seldom	Occas.	Frequent	Constant
Example	*50 lbs*	*20 lbs*	*10 lbs*	*0 lbs*	*0 lbs*
Lift L, R, B	___ lbs	___ lbs	___ lbs	___ lbs	___ lbs
Carry L, R, B	___ lbs	___ lbs	___ lbs	___ lbs	___ lbs
Push / Pull L, R, B	___ lbs	___ lbs	___ lbs	___ lbs	___ lbs

Other Restrictions / Instructions:

Instructions Section

Employer Notified of Capacities? ☐Yes ☐No
Modified duty available? ☐Yes ☐No
Date of contact: ___/___/___
Name of contact: _____
Notes:

Interventions Section

Note to Claim Manager:

Plans Section

☐ May need assistance returning to work

New diagnosis: _____

Opioid ☐ Acute pain ☐ Subacute pain or ☐ Chronic pain

Interventions Section

Required: Plans

Worker progress: ☐ As expected / better than expected
☐ Slower than expected (*address in chart notes*)

Current rehab: ☐ PT ☐ OT ☐ Home exercise
☐ Other (e.g., Activity Coaching) _____

Surgery: ☐ Not Indicated ☐Possible
☐ Planned Date: ___/___/___
☐ Completed Date: ___/___/___

Plans Section

☐ Next scheduled visit in: ___days ___weeks or Date: ___/___/___
☐ Treatment concluded, Max. Medical Improvement (MMI)
Any permanent partial impairment? ☐Yes ☐No ☐Possibly
If you are qualified, please rate impairment for your patient
☐ Will rate ☐ Will refer ☐ Request IME
☐ Care transferred to: _____
☐ Consultation needed with: _____
☐ Study pending: _____

Reg: Sign

☐ Copy of APF given to worker ☐ Discussed [illegible] form with patient

Instructions Section

Signature: _____ ___/____ ( )____-____
☐ Doctor ☐ ARNP ☐ PA-C Date Phone

Document Header

F245-385-000 Activity Prescription Form (APF) 11-2014 Index: **APF**

2.5.3 Coding scheme for locally coded entries

HL7 CDA R2 requires documents to be renderable in a human readable format representing the data faithfully. This in turn requires providing renderable information into *text* nodes of *section* templates.

APF implementation of CDA R2 schema for "Progress Note" document template further "codifies" these text entries to allow treating these text entries as coded entries while maintaining the renderability of document in human readable form using HL7 CDA R2 standard XSL transformations. This is achieved using a local coding scheme for assigning fixed ids to each data element. Below is an overview of these coding schemes with examples from sample document. Each of these sections and their value sets are explained further in next section.

Tables/Lists: coded as apf.<<apf section>>.<<area>>; e.g., *apf.capacities.functional* refers to table containing *functional capacities* in *apf*.

Cells in Table entries: coded as <<apf section>>.<<area>>.<<entry id>>.<<iteration>>.<<entry attribute>>; e.g., *capacities.functional.100.1.text* identifies *text* attribute of *iteration 1* of "Reaching" capacity (*id 100*) under *functional capacities*.

2.5.4 Section, Codes, Value Sets mapping

Listed below are value sets used in different sections for local codification of text entries.

2.5.4.1 Problems Section (templateId: 2.16.840.1.113883.10.20.22.2.5) (Optional)

If present, problems section of XML document identified by templateId `2.16.840.1.113883.10.20.22.2.5` maps following elements of APF document:

- Diagnosis

This section must have a templateId node with root attribute set to `2.16.840.1.113883.10.20.22.2.5` and a code node with fixed code of `11450-4` and LOINC code system `2.16.840.1.113883.6.1` as shown below.

```
<templateId root="2.16.840.1.113883.10.20.22.2.5"/>
<code code="11450-4" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"
displayName="PROBLEM LIST"/>
```

Text entry in Problems section should list diagnosis codes in a list identified by id `apf.accepteddiagnosis` as shown below. This section **should not** list all diagnosis codes from the patient history, only the ones applicable to this encounter and/or accepted by L&I (if known).

```
<list ID="apf.accepteddiagnosis" listType="ordered">
       <item>(ICD-9)907.4</item>
       <item>Pain Right Upper Arm</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	L&I Accepted Diagnosis (ICD9/10 codes or free text)	String	Free form

2.5.4.2 Assessment Section (templateId: 2.16.840.1.113883.10.20.22.2.8) (Required)

Assessment section of XML document identified by templateId 2.16.840.1.113883.10.20.22.2.8 maps following elements of APF document:

- Work Status

This section must have a templateId node with root attribute set to 2.16.840.1.113883.10.20.22.2.8 and a code node with fixed code of 51848-0 and LOINC code system 2.16.840.1.113883.6.1 as shown below.

```
<templateId root="2.16.840.1.113883.10.20.22.2.8"/>
<code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" code="51848-0"
  displayName="ASSESSMENT"/>
```

Text entry in Assessment section will contain a table identified by id apf.assessment as shown here. All possible values for cell identifiers are provided in the table below.

```
<table ID="apf.assessment">
	<thead>
		<tr>
			<th>Assessment</th>
			<th>Value</th>
			<th>Hours</th>
			<th>From Date</th>
			<th>To Date</th>
		</tr>
	</thead>
	<tbody>
		<tr>
			<td ID="assessment.100.1.text">Worker is released to the job of
injury without restrictions as of:</td>
			<td ID="assessment.100.1.value">No</td>
			<td ID="assessment.100.1.hours"></td>
			<td ID="assessment.100.1.fromdate"></td>
			<td ID="assessment.100.1.todate"></td>
		</tr>
		<tr>
			<td ID="assessment.101.1.text">Worker may perform modified duty,
if available:</td>
			<td ID="assessment.101.1.value">No</td>
			<td ID="assessment.101.1.hours"></td>
			<td ID="assessment.101.1.fromdate"></td>
			<td ID="assessment.101.1.todate"></td>
		</tr>
		<tr>
			<td ID="assessment.103.1.text">Worker may work limited hours</td>
			<td ID="assessment.103.1.value">Yes</td>
			<td ID="assessment.103.1.hours">6</td>
			<td ID="assessment.103.1.fromdate">20140311</td>
			<td ID="assessment.103.1.todate">20140325</td>
		</tr>
```

```
        </tbody>
</table>
```

APF Field Mappings to table cell entries:

Listed below are the Id values for table cells and corresponding APF entry mapped to them.

Id	Mapped APF Entry
assessment.100	Worker is released to job of injury without restriction
assessment.101	Worker may performed modified duty, if available
assessment.102	If released to modified duty, may work more than usual hours
assessment.103	Worker may work limited hours
assessment.104	Worker is working modified or limited hours
assessment.105	Worker not released to any work
assessment.106	Poor prognosis for return to work at the job of injury at any time

id attributes of table cell entries:

Attribute	Purpose/Description	Value Type	Possible Values
text	Display text in sender system corresponding to entry	String	Free form
value	Selection value of applicable entry (Checked = Yes, Unchecked = No)	Yes/No	Yes No
hours	When applicable, number of hours IW can work	Number	0 to 24
fromdate	When applicable, indicates the start date when assessment applies	Date	Date
todate	When applicable, indicates the end date till the assessment apply	Date	Date

2.5.4.3 Objective Section (templateId: 2.16.840.1.113883.10.20.21.2.1) (Optional)

If present (see **Error! Reference source not found.** for conditions when this section should be present), Objective section of XML document identified by templateId `2.16.840.1.113883.10.20.21.2.1` maps following elements of APF document:

- Key Objective Findings

This section must have a templateId node with root attribute set to `2.16.840.1.113883.10.20.21.2.1` and a code node with fixed code of `61149-1` and LOINC code system `2.16.840.1.113883.6.1` as shown below.

```
<templateId root="2.16.840.1.113883.10.20.21.2.1"/>
<code code="61149-1" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
  displayName="OBJECTIVE DATA "/>
```

Text entry in Objective section should list key objective findings of the encounter in a list identified by id `apf.keyobjectivefindings` as shown below.

```
<list ID="apf.keyobjectivefindings" listType="ordered">
   <item>Positive XRay</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	Key objective findings from the encounter	String	Free form

2.5.4.4 Instructions Section (templateId: 2.16.840.1.113883.10.20.22.2.45) (Optional)

If present (see **Error! Reference source not found.** for conditions when this section should be present), Instructions section of XML document identified by templateId `2.16.840.1.113883.10.20.22.2.45` maps following elements of APF document:

- Capacity duration
- Estimate what the worker can do
- Other Restrictions/Instructions
- Copy of APF given to worker/Talking points discussed with worker

This section must have a templateId node with root attribute set to `2.16.840.1.113883.10.20.22.2.45` and a code node with fixed code of `69730-0` and LOINC code system `2.16.840.1.113883.6.1` as shown below.

```
<templateId root="2.16.840.1.113883.10.20.22.2.45"/>
<code code="69730-0" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
      displayName="INSTRUCTIONS"/>
```

Text entry in this section contains following items:

- A list identified by id `apf.capacities.duration` (details below)
- A table identified by id `apf.capacities.basic` (details below)
- A table identified by id `apf.capacities.functional` (details below)
- A table identified by id `apf.capacities.weight` (details below)
- A list identified by id `apf.capacities.other` (details below)
- A table identified by id `apf.capacities.communication` (details below)

List apf.capacities.duration:

This list (identified by id `apf.capacities.duration`) lists duration for which capacities are estimated. Example:

```
<list ID="apf.capacities.duration" listType="ordered">
      <caption>Capacities duration (estimated days)</caption>
      <item>1-10</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	Duration for which capacities are estimated	Choice (String)	1-10 11-20 21-30 30+ permanent

Table apf.capacities.basic:

This table (identified by id `apf.capacities.basic`) contains estimates for basic capacities as shown here. All possible values for cell identifiers are provided in table below.

```
<table ID="apf.capacities.basic">
	<caption>Capacities</caption>
	<thead>
		<tr>
			<th>Function</th>
			<th>Estimate</th>
		</tr>
	</thead>
	<tbody>
		<tr>
			<td ID="capacities.basic.100.1.text">Sit</td>
			<td ID="capacities.basic.100.1.frequency">Frequent</td>
		</tr>
		<tr>
			<td ID="capacities.basic.101.1.text">Stand/Walk</td>
			<td ID="capacities.basic.101.1.frequency"></td>
		</tr>
		<tr>
			<td ID="capacities.basic.102.1.text">Perform work from ladder</td>
			<td ID="capacities.basic.102.1.frequency">Frequent</td>
		</tr>
		<tr>
			<td ID="capacities.basic.103.1.text">Climb ladder</td>
			<td ID="capacities.basic.103.1.frequency">Seldom</td>
		</tr>
	</tbody>
</table>
```

Field Mappings to table apf.capacities.basic cell entries:

Listed below are the Id values for table cells and corresponding APF entry mapped to them.

Id	Mapped APF Entry
capacities.basic.100	Sit
capacities.basic.101	Stand/Walk
capacities.basic.102	Perform work from ladder
capacities.basic.103	Climb ladder
capacities.basic.104	Climb stairs

capacities.basic.105	Twist
capacities.basic.106	Bend/Stoop
capacities.basic.107	Squat/Kneel
capacities.basic.108	Crawl

id attributes of table apf.capacities.basic cell entries:

Attribute	Purpose/Description	Value Type	Possible Values
text	Display text in sender system corresponding to entry	String	Free form
frequency	Frequency for applicable capacity	Choice (String)	Never Seldom Occassional Frequent Constant

Table apf.capacities.functional:

This table (identified by id `apf.capacities.functional`) contains estimates for functional capacities as shown here. All possible values for cell identifiers are provided in table below.

```
<table ID="apf.capacities.functional">
	<caption>Capacities Cont.</caption>
	<thead>
		<tr>
			<th>Function</th>
			<th>Estimate</th>
			<th>Side of body (Left, Right, Both)</th>
		</tr>
	</thead>
	<tbody>
		<tr>
			<td ID="capacities.functional.100.1.text">Reach</td>
			<td ID="capacities.functional.100.1.frequency"></td>
			<td ID="capacities.functional.100.1.sideofbody"></td>
		</tr>
		<tr>
			<td ID="capacities.functional.101.1.text">Work above
shoulders</td>
			<td ID="capacities.functional.101.1.frequency">Never</td>
			<td ID="capacities.functional.101.1.sideofbody"></td>
		</tr>
	</tbody>
</table>
```

Field Mappings to table apf.capacities.functional cell entries:

Listed below are the Id values for table cells and corresponding APF entry mapped to them.

Id	Mapped APF Entry
capacities.functional.100	Reach

capacities.functional.101	Work above shoulders
capacities.functional.102	Keyboard
capacities.functional.103	Wrist (flexion/extension)
capacities.functional.104	Grasp (forceful)
capacities.functional.105	Fine manipulation
capacities.functional.106	Operate foot control
capacities.functional.107	Vibratory tasks; high impact
capacities.functional.108	Vibratory tasks; low impact

id attributes of table apf.capacities.functional cell entries:

Attribute	Purpose/Description	Value Type	Possible Values
text	Display text in sender system corresponding to entry	String	Free form
frequency	Frequency for applicable capacity	Choice (String)	Never Seldom Occassional Frequent Constant
sideofbody	Indicates affected side of the body	Choice (String)	L R B

Table apf.capacities.weight:

This table (identified by id `apf.capacities.weight`) contains estimates for capacities involving weight as shown here. All possible values for cell identifiers are provided in table below.

```
<table ID="apf.capacities.weight">
	<caption>Lifting/Pushing Capacities</caption>
	<thead>
		<tr>
			<th>Capacity</th>
			<th>Weight</th>
			<th>Frequency</th>
			<th>Side Of Body</th>
		</tr>
	</thead>
	<tbody>
		<tr>
			<td ID="capacities.weight.100.1.text">Lift</td>
			<td ID="capacities.weight.100.1.weight">50</td>
			<td ID="capacities.weight.100.1.frequency">Never</td>
			<td ID="capacities.weight.100.1.sideofbody"></td>
		</tr>
		<tr>
			<td ID="capacities.weight.100.2.text">Lift</td>
			<td ID="capacities.weight.100.2.weight">20</td>
			<td ID="capacities.weight.100.2.frequency">Seldom</td>
			<td ID="capacities.weight.100.2.sideofbody"></td>
		</tr>
		<tr>
```

```
                        <td ID="capacities.weight.100.3.text">Lift</td>
                        <td ID="capacities.weight.100.3.weight">10</td>
                        <td ID="capacities.weight.100.3.frequency">Occasional</td>
                        <td ID="capacities.weight.100.3.sideofbody"></td>
                </tr>
                <tr>
                        <td ID="capacities.weight.101.1.text">Carry</td>
                        <td ID="capacities.weight.101.1.weight">20</td>
                        <td ID="capacities.weight.101.1.frequency">Never</td>
                        <td ID="capacities.weight.101.1.sideofbody"></td>
                </tr>
        </tbody>
</table>
```

***Note:** Weight capacities use iterations to indicate capacities for different weights in the same category. E.g., in the example above, Injured Worker should not lift 50 lbs + weights, can lift 10 lbs occasionally and seldom go for 20 lbs. Refer to Coding scheme for locally coded entries section for more details.

Field Mappings to table apf.capacities.weight cell entries:

Listed below are the Id values for table cells and corresponding APF entry mapped to them.

Id	Mapped APF Entry
capacities.weight.100	Lift
capacities.weight.101	Carry
capacities.weight.102	Push/Pull

id attributes of table apf.capacities.weight cell entries:

Attribute	Purpose/Description	Value Type	Possible Values
text	Display text in sender system corresponding to entry	String	Free form
weight	Weight applicable to this iteration of capacity estimate	Number (lbs)	Number
frequency	Frequency for applicable capacity	Choice (String)	Never Seldom Occassional Frequent Constant
sideofbody	Indicates affected side of the body	Choice (String)	L R B

List apf.capacities.other:

This list (identified by id `apf.capacities.other`) lists other restrictions/instructions.

```
<list ID="apf.capacities.other" listType="ordered">
        <caption>Other Restrictions/Instructions</caption>
```

```
        <item>Do not wash hands.</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	Other restrictions/instructions	String	Free Text

Table apf.capacities.communication:

This table (identified by id `apf.capacities.communication`) contains entries indicating communication with Injured Worker during the encounter. All possible values for cell identifiers are provided in table below.

```
<table ID="apf.capacities.communication">
        <caption>Worker Communication</caption>
        <tbody>
                <tr>
                        <td ID="capacities.communication.copygiventoworker.1.text">Copy of
APF given to worker</td>
                        <td
ID="capacities.communication.copygiventoworker.1.value">Yes</td>
                </tr>
                <tr>
                        <td
ID="capacities.communication.talkingpointsdiscussed.1.text">Discussed three key
messages with patient</td>
                        <td
ID="capacities.communication.talkingpointsdiscussed.1.value">Yes</td>
                </tr>
        </tbody>
</table>
```

Field Mappings to table apf.capacities.communication cell entries:

Listed below are the Id values for table cells and corresponding APF entry mapped to them.

Id	Mapped APF Entry
capacities.communication.copygiventoworker	Copy of APF given to worker
capacities.communication.talkingpointsdiscussed	Discussed three key messages with patient

id attributes of table apf.capacities.communication cell entries:

Attribute	Purpose/Description	Value Type	Possible Values
text	Display text in sender system corresponding to entry	String	Free form
value	Value corresponding to entries	Yes/No (String)	Yes No

2.5.4.5 Interventions Section (templateId: 2.16.840.1.113883.10.20.21.2.3) (Optional)

If present, Intervenstons section of XML document identified by templateId 2.16.840.1.113883.10.20.21.2.3 maps following elements of APF document:

- Employer Communication
- New Diagnosis
- Opioids Prescription

This section must have a templateId node with root attribute set to 2.16.840.1.113883.10.20.21.2.3 and a code node with fixed code of 62387-6 and LOINC code system 2.16.840.1.113883.6.1 as shown below.

```
<templateId root="2.16.840.1.113883.10.20.21.2.3"/>
<code code="62387-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"
displayName="INTERVENTIONS PROVIDED"/>
```

Text entry in this section contains following items:

- A table identified by id apf.interventions.employernotification (details below)
- A list identified by id apf.interventions.newdiagnosis (details below)
- A list identified by id apf.interventions.opioids (details below)

Table apf.interventions.employernotification:

This table (identified by id apf.interventions.employernotification) contains entries pertaining to employer communication as shown here. All possible values for cell identifiers are provided in table below.

```
<table ID="apf.interventions.employernotification">
	<caption>Employer Communication</caption>
	<thead>
		<tr>
			<th>Employer Notified of Capacities?</th>
			<th>Modified Duty Available?</th>
			<th>Contact Date</th>
			<th>Contact Name</th>
			<th>Notes</th>
		</tr>
	</thead>
	<tbody>
		<tr>
		  <td ID="interventions.employernotification.1.value">Yes</td>
		  <td ID="interventions.employernotification.1.modifiedduty">Yes</td>
		  <td ID="interventions.employernotification.1.date">20140213</td>
		  <td ID="interventions.employernotification.1.contact">HR Manager</td>
		  <td ID="interventions.employernotification.1.notes">Discussed
modified/limited duties available.</td>
		</tr>
	</tbody>
</table>
```

Field Mappings to table apf.interventions.employernotification cell entries:

Listed below are the Id values for table cells and corresponding APF entry mapped to them.

Id	Mapped APF Entry
interventions.employernotification	Employer Notified of Capacities

id attributes of table apf.interventions.employernotification cell entries:

Attribute	Purpose/Description	Value Type	Possible Values
value	Selection indicating whether employer was notified	Yes/No (String)	Yes No
modifiedduty	Selection indicating if modified duty is available	Yes/No (String)	Yes No
date	Date employer was contacted/notified	Date	Date
contact	Name of contacted person	String	Free Text
notes	Notes from the employer discussion	String	Free Text

List apf.interventions.newdiagnosis:

This list (identified by id `apf.interventions.newdiagnosis`) lists any new diagnosis discovered/established during the encounter.

```
<list ID="apf.interventions.newdiagnosis" listType="ordered">
       <caption>New Diagnosis</caption>
       <item>(ICD9)880.20</item>
       <item>Sprain Right Shoulder</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	New diagnosis from the encounter (ICD9/10 codes or text)	String	Free Text

List apf.interventions.opioids:

This list (identified by id `apf.interventions.opioids`) lists if opioids are prescribed to the injured worker.

```
<list ID="apf.interventions.opioids" listType="ordered">
       <caption>Opioids prescribed for</caption>
       <item>Acute Pain</item>
       <item>Chronic Pain</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	Reason for Opioid prescription	Choice (String)	Acute Pain Chronic Pain

2.5.4.6 Plan Of Care Section (templateId: 2.16.840.1.113883.10.20.22.2.10) (Required)

Plan of Care section of XML document identified by templateId `2.16.840.1.113883.10.20.22.2.10` maps following elements of APF document:

- Plans
- Note to Claim Manager (including "May need assistance returning to work" checkbox)

This section must have a templateId node with root attribute set to `2.16.840.1.113883.10.20.22.2.10` and a code node with fixed code of `18776-5` and LOINC code system `2.16.840.1.113883.6.1` as shown below.

```
<templateId root="2.16.840.1.113883.10.20.22.2.10"/>
<code code="18776-5" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
   displayName="Treatment plan"/>
```

Text entry in this section contains following items:

- A table identified by id `apf.plans.nextvisit` (details below)
- A list identified by id `apf.plans.progress` (details below)
- A list identified by id `apf.plans.currentrehab` (details below)
- A table identified by id `apf.plans.surgery` (details below)
- A list identified by id `apf.plans.impairment` (details below)
- A list identified by id `apf.plans.rateimpairment` (details below)
- A list identified by id `apf.plans.treatmentend` (details below)
- A list identified by id `apf.plans.transferred` (details below)
- A list identified by id `apf.plans.consultation` (details below)
- A list identified by id `apf.plans.study` (details below)
- A list identified by id `apf.plans.clmmgrnotes` (detail below)
- A list identified by id `apf.plans.mayneedassistance` (details below)

Table apf.plans.nextvisit:

This table (identified by id `apf.plans.nextvisit`) contains entries pertaining to next scheduled visit as shown here. All possible values for cell identifiers are provided in table below.

```
<table ID="apf.plans.nextvisit">
  <caption>Next scheduled visit in</caption>
  <thead>
    <tr>
      <th>Value</th>
```

```
      <th>Days/Weeks/Date</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td ID="plans.nextvisit.1.value">6</td>
      <td ID="plans.nextvisit.1.interval">Weeks</td>
    </tr>
  </tbody>
</table>
```

Field Mappings to table apf.plans.nextvisit cell entries:

Listed below are the Id values for table cells and corresponding APF entry mapped to them.

Id	Mapped APF Entry
plans.nextvisit	Next scheduled visit

id attributes of table apf.plans.nextvisit cell entries:

Attribute	Purpose/Description	Value Type	Possible Values
value	Value for next scheduled visit	Number/Date	Number as Text Date of next visit
interval	Interval for next scheduled visit value	Choice (String)	Date (if value is next visit date) Days Weeks

List apf.plans.progress:

This list (identified by id `apf.plans.progress`) lists indicators of worker progress.

```
<list ID="apf.plans.progress" listType="ordered">
  <caption>Worker Progress</caption>
  <item>As expected</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	Value indicating worker progress	Choice (String)	As expected Slower than expected

List apf.plans.currentrehab:

This list (identified by id `apf.plans.currentrehab`) current rehab for worker (if any).

```
<list ID="apf.plans.currentrehab" listType="ordered">
  <caption>Current Rehab</caption>
```

```
  <item>PT</item>
  <item>OT</item>
  <item>Home Exercise</item>
  <item>Chiropractic</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	Current rehab indicator(s)	Choice(String)/Free Text	PT OT Home exercise (Other/Free Text)

Table apf.plans.surgery:

This table (identified by id `apf.plans.surgery`) contains entries pertaining to surgery actions. All possible values for cell identifiers are provided in table below.

```
<table ID="apf.plans.surgery">
  <caption>Surgery</caption>
  <thead>
    <tr>
      <th>Action</th>
      <th>Value</th>
      <th>Date</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td ID="plans.surgery.1.action">Planned</td>
      <td ID="plans.surgery.1.value">Yes</td>
      <td ID="plans.surgery.1.date">20141214</td>
    </tr>
    <tr>
      <td ID="plans.surgery.2.action">Completed</td>
      <td ID="plans.surgery.2.value">Yes</td>
      <td ID="plans.surgery.2.date">20141130</td>
    </tr>
  </tbody>
</table>
```

Other example (without date):

```
<table ID="apf.plans.surgery">
  <caption>Surgery</caption>
  <thead>
    <tr>
      <th>Action</th>
      <th>Value</th>
      <th>Date</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td ID="plans.surgery.3.action">Not Indicated</td>
```

```
      <td ID="plans.surgery.3.value">Yes</td>
      <td ID="plans.surgery.3.date"></td>
    </tr>
  </tbody>
</table>
```

Field Mappings to table apf.plans.surgery cell entries:

Listed below are the Id values for table cells and corresponding APF entry mapped to them.

Id	Mapped APF Entry
plans.surgery	Surgery plan

id attributes of table apf.plans.surgery cell entries:

Attribute	Purpose/Description	Value Type	Possible Values
action	Surgery related action	Choice (String)	Not Indicated Possible Planned Completed
value	Value for the surgery related action	Yes/No (String)	Yes No
date	Date of planned or completed surgery (where applicable)	Date	Date (if applicable)

List apf.plans.impairment:

This list (identified by id `apf.plans.impairment`) indicates any permanent/partial impairment(s) for the worker.

```
<list ID="apf.plans.impairment" listType="ordered">
  <caption>Any permanent/partial impairment</caption>
  <item>Yes</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	Permanent/partial imparement	Choice (String)	Yes No Possibly

List apf.plans.rateimpairment:

This list (identified by id `apf.plans.rateimpairment`) indicates rating/referral for imparement by the attending provider (if qualified).

```
<list ID="apf.plans.rateimpairment" listType="ordered">
  <caption>Please rate impairment, if qualified</caption>
  <item>Will Refer</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	Impairment rating	Choice (String)	Will rate Will refer Request IME

List apf.plans.treatmentend:

This list (identified by id `apf.plans.treatmentend`) indicates if the treatment is concluded for the worker.

```
<list ID="apf.plans.treatmentend" listType="ordered">
       <caption>Treatment concluded, Max. Medical Improvement (MMI)</caption>
       <item>Yes</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	Indicator if the treatment is concluded	Yes/No	Yes No

List apf.plans.transferred:

This list (identified by id `apf.plans.transferred`) indicates if the care is transferred to another provider/facility.

```
<list ID="apf.plans.transferred" listType="ordered">
       <caption>Care transferred to:</caption>
       <item>Everett Clinic</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	Name of provider/facility where care is transferred to	String	Free Text

List apf.plans.consultation:

This list (identified by id `apf.plans.consultation`) indicates if further consultation is needed.

```
<list ID="apf.plans.consultation" listType="ordered">
      <caption>Consultation needed with:</caption>
      <item>ONC</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	Indicators for further consultation needed	String	Free Text

List apf.plans.study:

This list (identified by id `apf.plans.study`) indicates if further study is needed/pending.

```
<list ID="apf.plans.study" listType="ordered">
      <caption>Study Pending:</caption>
      <item>Need more tests</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	Further/pending studies	String	Free Text

List apf.plans.clmmgrnotes:

This list (identified by id `apf.plans.clmmgrnotes`) contains notes for L&I Claim Manager.

```
<list ID="apf.plans.clmmgrnotes" listType="ordered">
  <caption>Note to Claim Manager</caption>
  <item>Previous back injury</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	Notes to claim manager	String	Free Text

List apf.plans.mayneedassistance:

This list (identified by id `apf.plans.mayneedassistance`) contains indicator if the patient may need assistance returning to work.

```
<list ID="apf.plans.mayneedassistance" listType="ordered">
  <caption>May need assistance returning to work</caption>
  <item>Yes</item>
</list>
```

Entries in List:

Entry	Purpose/Description	Value Type	Possible Values
item	May need assistance returning to work	Yes/No (String)	Yes No

3 APF Acknowledgements/Responses

APFs sent to L&I will have 2 responses sent back. One, sent from OHP HIE (HIE Acknowledgement) indicating successful delivery of document to L&I. Second, sent from L&I (L&I Deferred Response) with information about processing of received document at L&I.

OHP HIE acknowledgements will inform sender about "delivery" of document to L&I.

L&I Deferred Response will inform sender about any technical errors (e.g. missing important fields etc.) , any other information regarding the provider's source device details (using author information) if included in the receiving document will be added in the response or other updates on received document (e.g. successful processing etc.).

3.1 Sample OHP HIE Acknowledgement

Below is a sample OHP HIE Acknowledgement message. Notice the root node name = OHPHIEack.

```
<?xml version="1.0" encoding="UTF-8" ?>
<OHPHIEack version="1.0">
  <Status>Delivered</Status>
  <Comments/>
  <HIEId>ZZOHPUAT</HIEId>
  <HIEName>OHP UAT</HIEName>
  <SenderId>f5tp1v00</SenderId>
  <SenderName>State of WA Dept of Labor &amp; Industries</SenderName>
  <ReceiverId>f5tp1v00</ReceiverId>
  <ReceiverName>State of WA Dept of Labor &amp; Industries</ReceiverName>
  <DeliveredTime>06-11-2014 14:19:21 PST</DeliveredTime>
  <DocumentType>ADT</DocumentType>
  <FileName>testfile.hl7</FileName>
</OHPHIEack>
```

<Status> field in the message above indicates successful delivery of document to L&I.

<SenderId> and <SenderName> fields in the message are related to original sender of the file.

<ReceiverId> and <ReceiverName> fields in the message are related to receiver of original document (L&I).

3.2 L&I Deferred Response Scheme

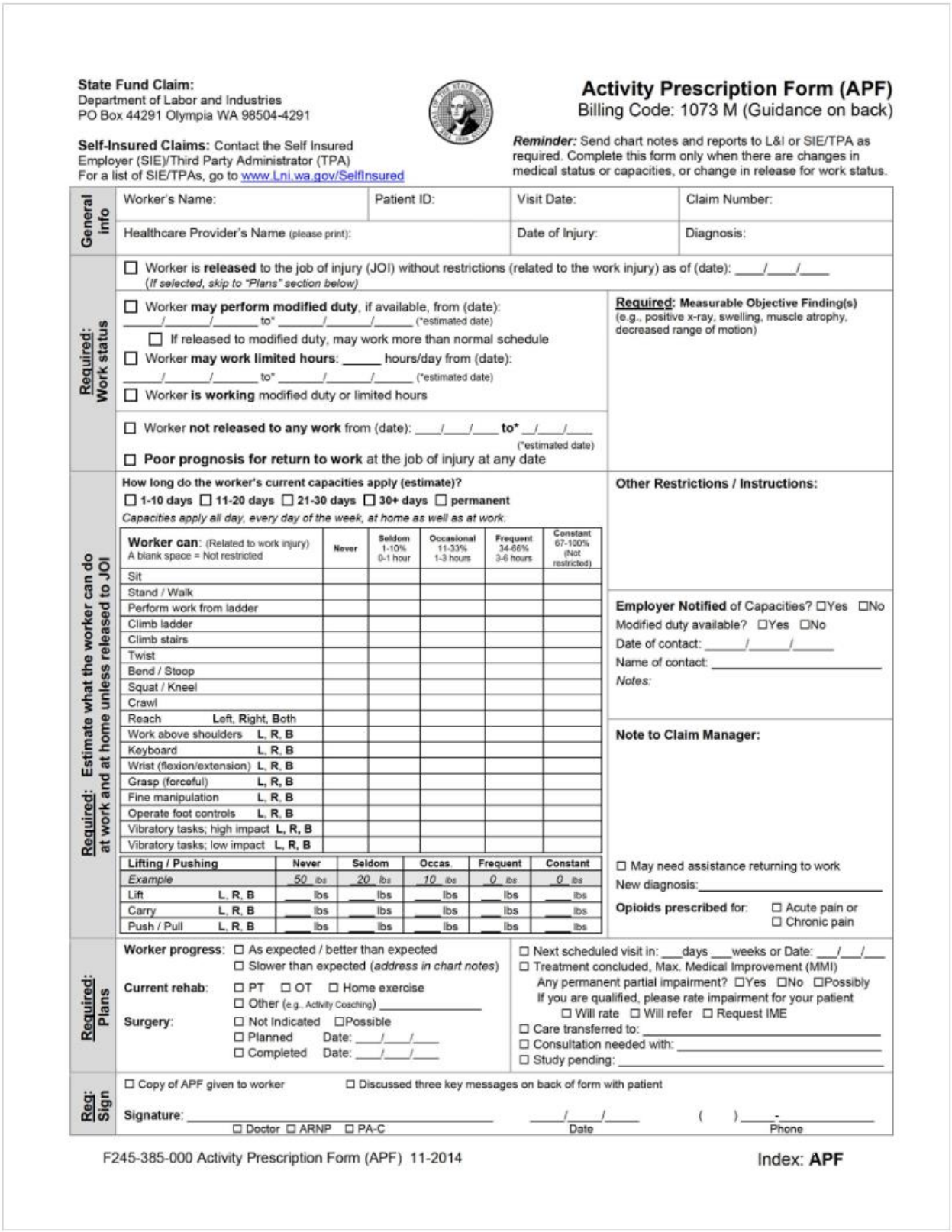
L&I Deferred response scheme will be detailed in an additional document and provided separately with field level details, schema etc.

4 XSL Transformations

Organizations/systems implementing APF exchange with L&I via HIE are encouraged to leverage XSL Transformations to create the desired exchange format message. One possible scenario would be to implement data extract from EMR systems in raw/proprietary XML format and run it through an XSL transform to create an XML document in the exchange format discussed here.

5 Appendix

5.1 APF Form Image



State Fund Claim:
Department of Labor and Industries
PO Box 44291 Olympia WA 98504-4291

Self-Insured Claims: Contact the Self Insured Employer (SIE)/Third Party Administrator (TPA)
For a list of SIE/TPAs, go to www.Lni.wa.gov/SelfInsured

Activity Prescription Form (APF)
Billing Code: 1073 M (Guidance on back)

Reminder: Send chart notes and reports to L&I or SIE/TPA as required. Complete this form only when there are changes in medical status or capacities, or change in release for work status.

General info

Worker's Name:	Patient ID:	Visit Date:	Claim Number:
Healthcare Provider's Name (please print):		Date of Injury:	Diagnosis:

Required: Work status

☐ Worker is **released** to the job of injury (JOI) without restrictions (related to the work injury) as of (date): ____/____/____
(If selected, skip to "Plans" section below)

☐ Worker **may perform modified duty**, if available, from (date): _____/_____/_____ to* _____/_____/_____ (*estimated date)
☐ If released to modified duty, may work more than normal schedule
☐ Worker **may work limited hours**: _____ hours/day from (date): _____/_____/_____ to* _____/_____/_____ (*estimated date)
☐ Worker **is working** modified duty or limited hours

☐ Worker **not released to any work** from (date): ____/____/____ **to*** __/____/____ (*estimated date)
☐ **Poor prognosis for return to work** at the job of injury at any date

Required: Measurable Objective Finding(s) (e.g., positive x-ray, swelling, muscle atrophy, decreased range of motion)

Required: Estimate what the worker can do at work and at home unless released to JOI

How long do the worker's current capacities apply (estimate)?
☐ 1-10 days ☐ 11-20 days ☐ 21-30 days ☐ 30+ days ☐ permanent
Capacities apply all day, every day of the week, at home as well as at work.

Worker can: (Related to work injury) A blank space = Not restricted	Never	Seldom 1-10% 0-1 hour	Occasional 11-33% 1-3 hours	Frequent 34-66% 3-6 hours	Constant 67-100% (Not restricted)
Sit					
Stand / Walk					
Perform work from ladder					
Climb ladder					
Climb stairs					
Twist					
Bend / Stoop					
Squat / Kneel					
Crawl					
Reach Left, Right, Both					
Work above shoulders L, R, B					
Keyboard L, R, B					
Wrist (flexion/extension) L, R, B					
Grasp (forceful) L, R, B					
Fine manipulation L, R, B					
Operate foot controls L, R, B					
Vibratory tasks; high impact L, R, B					
Vibratory tasks; low impact L, R, B					

Lifting / Pushing	Never	Seldom	Occas.	Frequent	Constant
Example	*50 lbs*	*20 lbs*	*10 lbs*	*0 lbs*	*0 lbs*
Lift L, R, B	____ lbs	____ lbs	____ lbs	____ lbs	____ lbs
Carry L, R, B	____ lbs	____ lbs	____ lbs	____ lbs	____ lbs
Push / Pull L, R, B	____ lbs	____ lbs	____ lbs	____ lbs	____ lbs

Other Restrictions / Instructions:

Employer Notified of Capacities? ☐Yes ☐No
Modified duty available? ☐Yes ☐No
Date of contact: _____/_____/_____
Name of contact: _____
Notes:

Note to Claim Manager:

☐ May need assistance returning to work
New diagnosis: _____
Opioids prescribed for: ☐ Acute pain or ☐ Chronic pain

Required: Plans

Worker progress: ☐ As expected / better than expected ☐ Slower than expected (*address in chart notes*)
Current rehab: ☐ PT ☐ OT ☐ Home exercise ☐ Other (e.g., Activity Coaching) _____
Surgery: ☐ Not Indicated ☐Possible ☐ Planned Date: ____/____/____ ☐ Completed Date: ____/____/____

☐ Next scheduled visit in: ___days ___weeks or Date: ___/___/___
☐ Treatment concluded, Max. Medical Improvement (MMI)
Any permanent partial impairment? ☐Yes ☐No ☐Possibly
If you are qualified, please rate impairment for your patient
☐ Will rate ☐ Will refer ☐ Request IME
☐ Care transferred to: _____
☐ Consultation needed with: _____
☐ Study pending: _____

Reg: Sign

☐ Copy of APF given to worker ☐ Discussed three key messages on back of form with patient

Signature: _____ ____/____/____ ( )____-____
☐ Doctor ☐ ARNP ☐ PA-C — Date — Phone

F245-385-000 Activity Prescription Form (APF) 11-2014 Index: **APF**

5.2 APF Sample CDA XML

Embedded attached sample to understand the structure of APF CDA:

APF_CDA_2.0.xml