

# PDO Request and Response Message Structure

The PDO request / response message structure is divided into three parts:

- 1. pdoheader
- 2. Request
- 3. Response

For the request message, the *<pdoheader>* and *<request>* sections are required, while for the response message, only the *<response>* section is required.

```
<i2b2:message_body>
<crc:pdoheader>
<request_type>GetPDOFromInputList_requestType</request_type>
...
</crc:pdoheader>
<crc:request>
...
</crc:request>
<crc:response>
...
</crc:response>
</i2b2:message_body>
```

| Element Name | Description   |
|--------------|---|
| pdoheader    | <p>The header contains a <i>&lt;request_type&gt;</i> element, which will carry the operation name. Each operation name has a specific request / response combination.</p> <p>The following is a list of supported operation names:</p> <ul style="list-style-type: none"><li>• getPDO_fromInputList</li><li>• get_observationfact_by_primary_key</li><li>• get_patient_by_primary_key</li><li>• get_event_by_primary_key</li><li>• get_concept_by_primary_key</li><li>• get_observer_by_primary_key</li></ul> |
| request      | The <i>&lt;request&gt;</i> is modeled as an object using a polymorphic approach. All operation specific request objects inherit a base <b>RequestType object</b> as shown in the object model diagram in the next section.  |
| response     | The <i>&lt;response&gt;</i> is also modeled as an object using a polymorphic approach. All operation specific response objects inherit a base <b>PDOResponseType object</b> containing a <b>StatusType attribute</b> as shown in the object model diagram in the next section.  |