

IPAACA - Feature #467

Feature # 466 (New): IPAACA v3

v3: Linked IU events / Batch updates on the IU [event] level

2016-02-16 14:45 - Ramin Yaghoubzadeh

Status:	New	Start date:	2016-02-16
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
Similarly to the batch payload updates introduced in v2, v3 ought to provide a means of coordinating several IU events in a single indivisible transaction.			
A possible, and important, use case would be the publication of linked sets of IUs in a single shot.			
This will most certainly involve support on the protocol level (note that #462 will entail a new protocol version, anyway).			

History

#1 - 2016-02-22 15:11 - Hendrik Buschmeier

Linked IU events should consist of updates to payload, links or metadata as well as of new IUs being added. My initial proposal for a protobuf-WireSchema for such a 'transaction' is as follows:

```
message Transaction {
```

```
    // Protocol specific fields
    optional string protocol_version = 1 [default = "3.0"];
    optional string auth_token = 2 [default = ""];
```

```
    repeated IU new_ius = 3;
    repeated IUUpdate updates = 4;
```

```
}
```

Two open questions:

- Is an ordering of the individual items in an transaction assumed? If yes, an additional layer of abstraction over TransactionItems might be necessary, e.g.:

```
message Transaction {
```

```
    // Protocol specific fields
    optional string protocol_version = 1 [default = "3.0"];
    optional string auth_token = 2 [default = ""];
```

```
    repeated TransactionItem items = 3;
}
```

```
message TransactionItem {
    optional IU iu = 1;
    optional IUUpdate update = 2;
}
```

- What happens if one of the updates fails?

#2 - 2016-02-22 16:17 - Hendrik Buschmeier

I created a branch ipaaca3-dev (available [here](#)) that contains a first proposal for how the protobuf messages for ipaaca3 could look like (see commit:39a14c1d).