

Reducer functional object message protocol

Request protocol

Json format of message or Input object fields:

```
{  
  "type": <message_type>,  
  "data": "[{<message_body>}]",  
  "ttl": <message_ttl>  
}
```

message_type - numeric integer, defines processing type, 0 - sphinx search result
message_body - Json data different for each processing type, by default Sphinx search result
message_ttl - numeric, message TTL for network transport level. It can be the "Time To Leave" in milliseconds for reducer task. Reducer task accumulates aggregates and sorts the results items from messages that received from all nodes connected to reducer node. If some connected node(s) not responds in time - the node's response(s) will be rejected by reducer task manager and lost. Default value is 10 sec.

Response protocol

Json format of message or Output object fields:

```
{  
  "type": <message_type>,  
  "data": "<response_body>",  
  "ttl": <message_ttl>,  
  "error_code": <error_code>,  
  "error_message": "<error_message>",  
  "time": "<elapsed_time>"  
}
```

error_code - error state code, 0 - no errors, >0 - some error
error_message - error description text
message_type - numeric integer, defines processing type, 0 - sphinx search result. Set from request "type" field.
response_body - Json data different for each processing type, by default Sphinx search result merged json (SphinxResult object)
elapsed_time - internal common execution time (including request parsing and response creation), msec
message_ttl - the same as in request.

Possible errors

Code	Description
1	Parse error - wrong Json format or another parse error.
3	General internal error of functional object