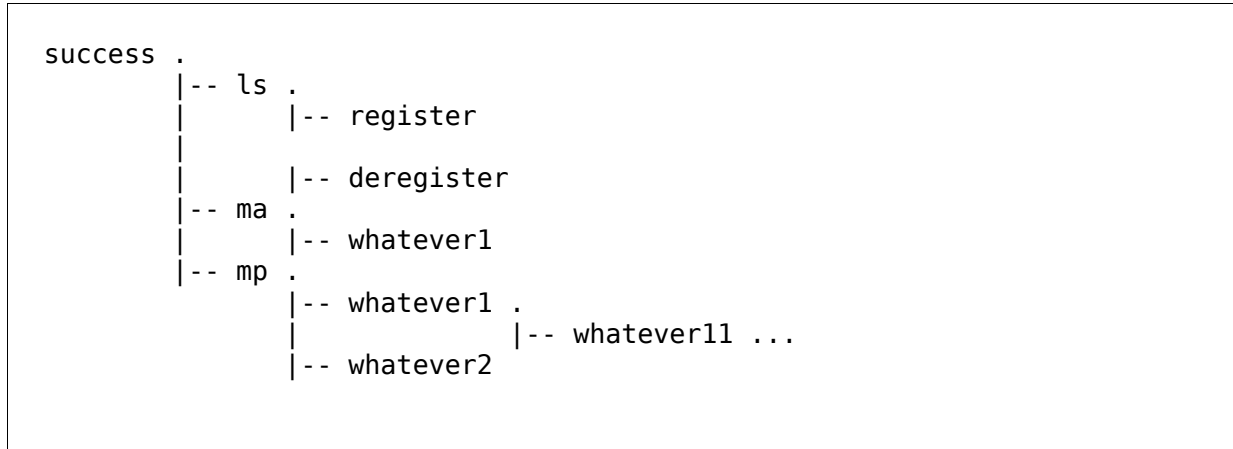


## Event Types hierarchy

### Introduction :

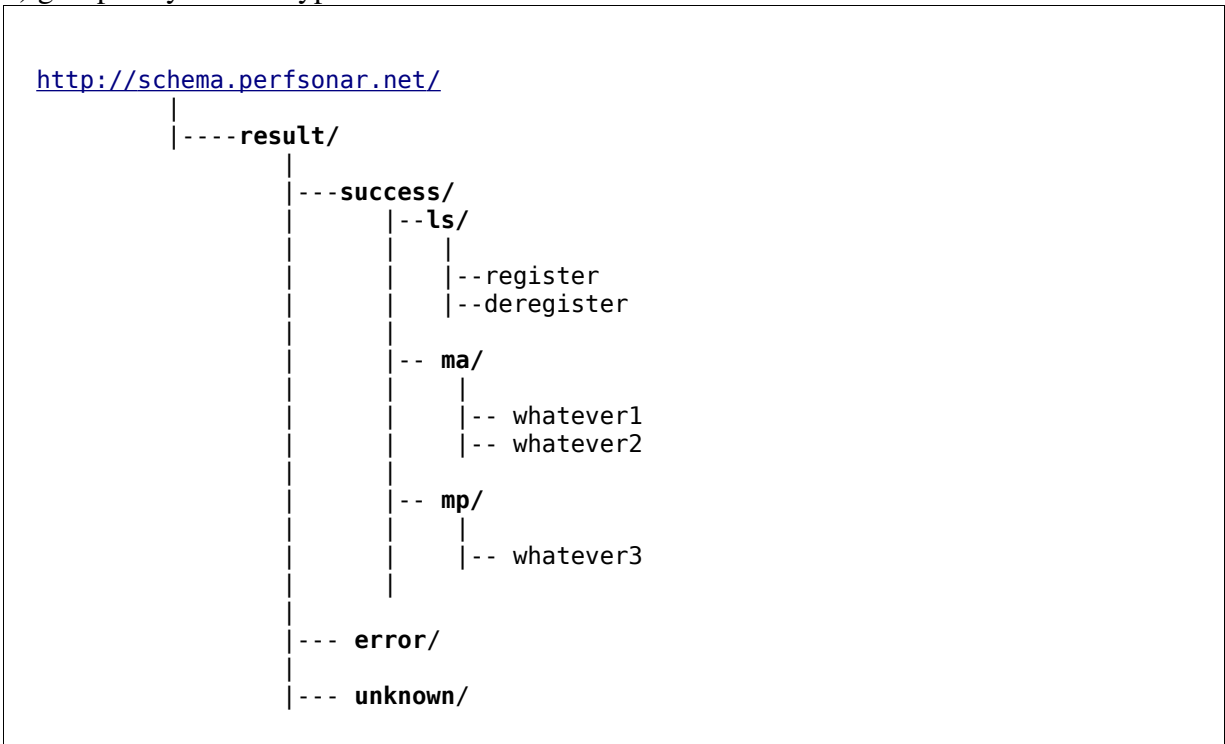
This document describes policy of the eventTypes in responses. The current version of Perfsonar services supports “dotted” notation of the eventTypes (in responses). Event types in requests have url event type notation. It is a big inconsistency between event types in requests and responses. Picture below(1.1) depicts “dotted” notation used in responses



Picture 1.1. Example of the “dotted” notation – success branch

In next releases “dotted” notation should be replaced with “url” notation. There are three proposals of “url” notation:

#### 1) grouped by service type :



Picture 1.2. Example of “url” eventTypes - grouped by service type

2) grouped by functionality:

<http://schema.perfsonar.net/>

-----**result/**

---**success/**

-- register  
-- deregister  
-- echo  
-- storage  
-- other functionality  
-- ...

--- **error/**

---..

Picture 1.3. Example of “url” eventTypes - grouped by functionality

3) hybrid hierarchy contains two kinds of event types :

- common and very simple event types (similar to HTTP codes)
- more “specialized” (if service wants to provide more information)

<http://schema.perfsonar.net/status/>

----- **info/**

| -- might not use this one...

----- **successful**

-- registration  
-- metadatakeyresponse  
-- "any protocol response, but based on protocol messages not on

service types"...

-----**redirection**

| -- not sure we need this, but it could be used for hLS redirecting

----- **client error**

-- bad request  
-- unauthorized  
-- forbidden  
-- not found/no data  
-- eventType not allowed  
-- request timeout  
-- conflict (for example, too many users)  
-- request too large (size of message)  
-- request range needed (size of response would be too big)

----- **server error**

-- internal server error  
| -- back-end database check failed  
-- not implemented  
-- service unavailable (temporary failure)  
-- protocol version unsupported

Picture 1.4. Example of “url” eventTypes – hybrid hierarchy

**Related documents :**

[https://wiki.man.poznan.pl/perfsonar-mdm/index.php/Result\\_codes](https://wiki.man.poznan.pl/perfsonar-mdm/index.php/Result_codes)

[https://wiki.man.poznan.pl/perfsonar-mdm/index.php/Result\\_code\\_hierarchy](https://wiki.man.poznan.pl/perfsonar-mdm/index.php/Result_code_hierarchy)