

# GO-ESSP

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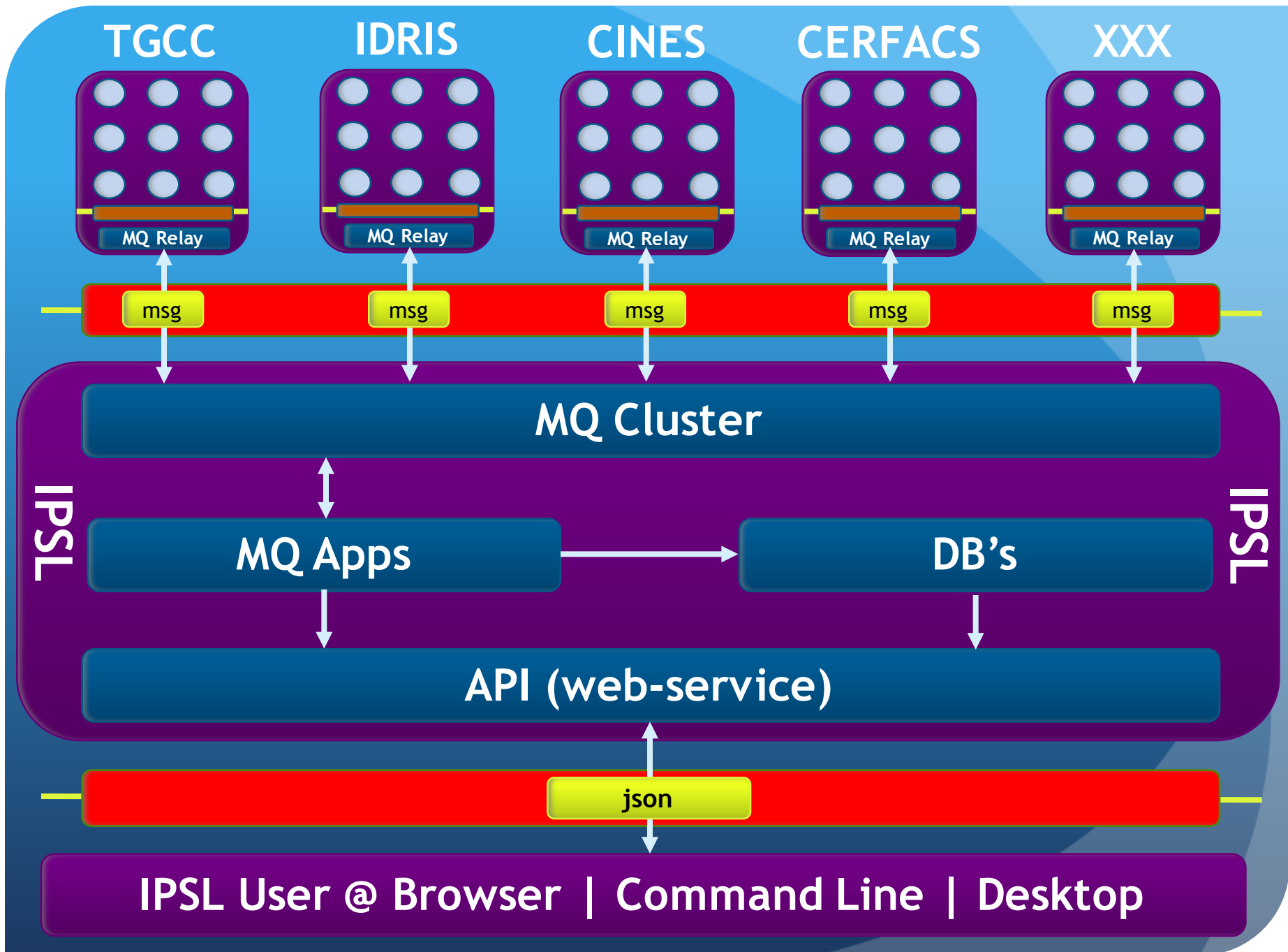
Towards a really simple controlled vocabulary service

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# I - Real World @ IPSL

Low latency adaptive system



# Message Flow: IPSL.MQ-APP ---> Other

## MQ APPS @ IPSL

primary

sim-mon  
(python)

metrics  
(python)

esg-f  
(python)

es-doc  
(python)

secondary

api  
(python)

smtp  
(python)

img  
(python)

tcp/ip

https

wss

smtp

???

DB @ IPSL

API  
@ ESG-F

API  
@ ES-DOC

FE @  
browser

SMTP  
@ IPSL

File  
Server  
@ IPSL

Config file validation

Ingestion points

Message headers

Message content

Browser Apps

ES-DOC publishing

ESG-F publishing

# Vocabulary Contexts

**IPSL**

**ES-DOC**

**ESG-F**

**CF-NAMES**

# II -Requirements

# Requirements- I

- Seeding
- Simple type system
- Name spacing
- Associations
- Hierarchies
- Aliases / Synonyms
- Versioning
- I/O (with GitHub integration)



# Requirements- II

- Interoperability (encode / decode)
- Validation
- Caching
- Parsing (substitutions)
- Governance (accept, reject, deprecate, reset ...etc)
- Adaptive (new terms)
- Language bindings: Python, Javascript ...etc
- Custom term data

# III - Towards A Standard Library

# pyessv

- PYthon Earth Science Standard Vocabularies ???
- Forked from prodiguer library
- See IPython Notebook
- Pip installable
- Unit tested
- Open sourced
- <https://github.com/Prodiguer/pyessv>