



MAST VO Operations
IVOA Interop, Paris, May 2019
Operations Interest Group

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MAST VO Operations: no metrics.

This is not a talk about metrics.

This is a talk about MAST's VO-related architecture, which is a moving target.

And about why.



Early VO participation:

- experiment with standards themselves in research mode
- However most comfortable for individual developers
- or the architecture where the data lived



Meanwhile MAST has expanded

- 32 people
- Astronomers, engineers, web designer, management
- Missions from tiny to Pan-STARRS
- Heterogenously collected from High Level Science Products to CAOM



MAST VO Data Service Early Architecture

PHP
Spectral
Services

PHP
Cone
Services

C#/IIS
Cone
Services

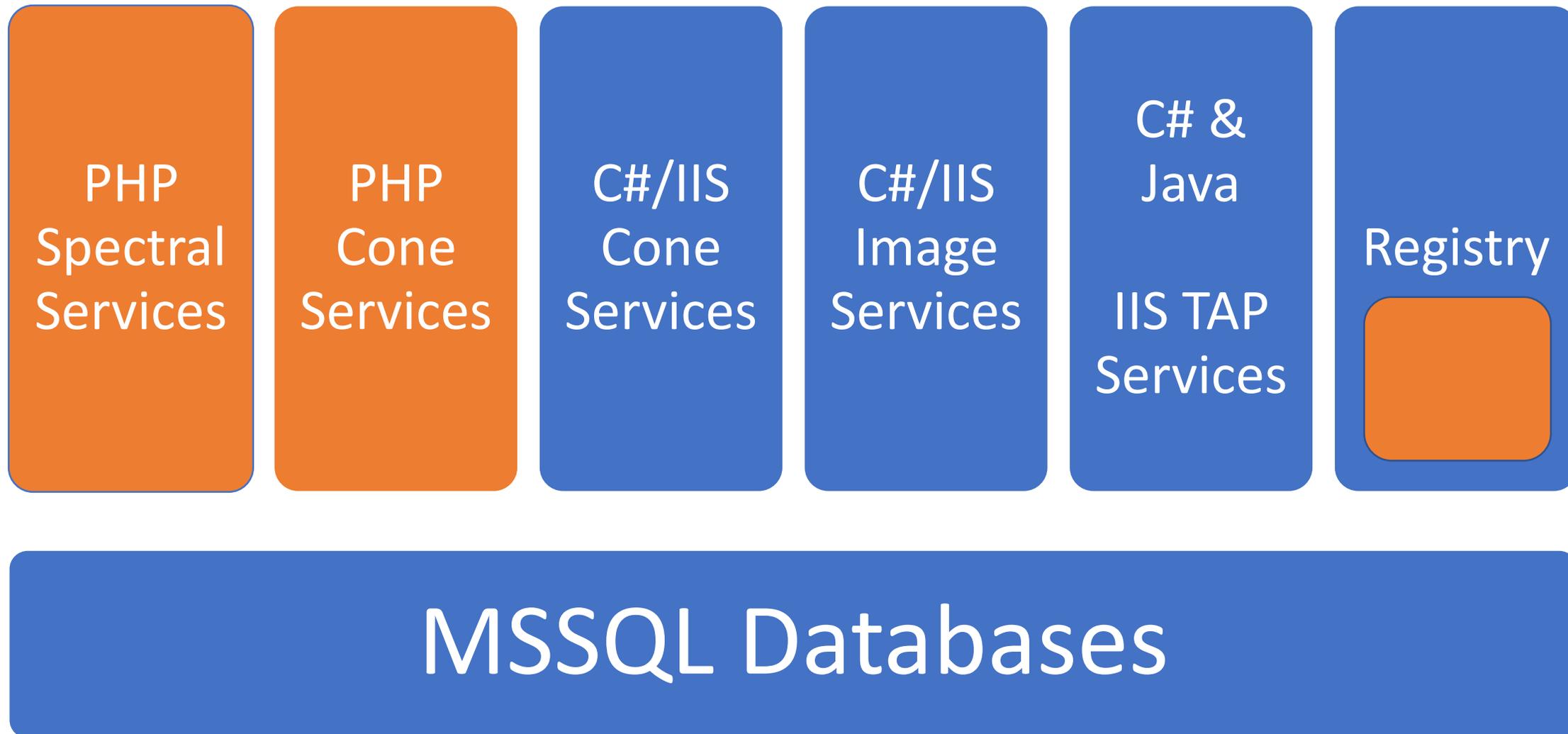
C#/IIS
Image
Services

C#/IIS
Registry

MSSQL Databases
(with HTM spatial libraries)

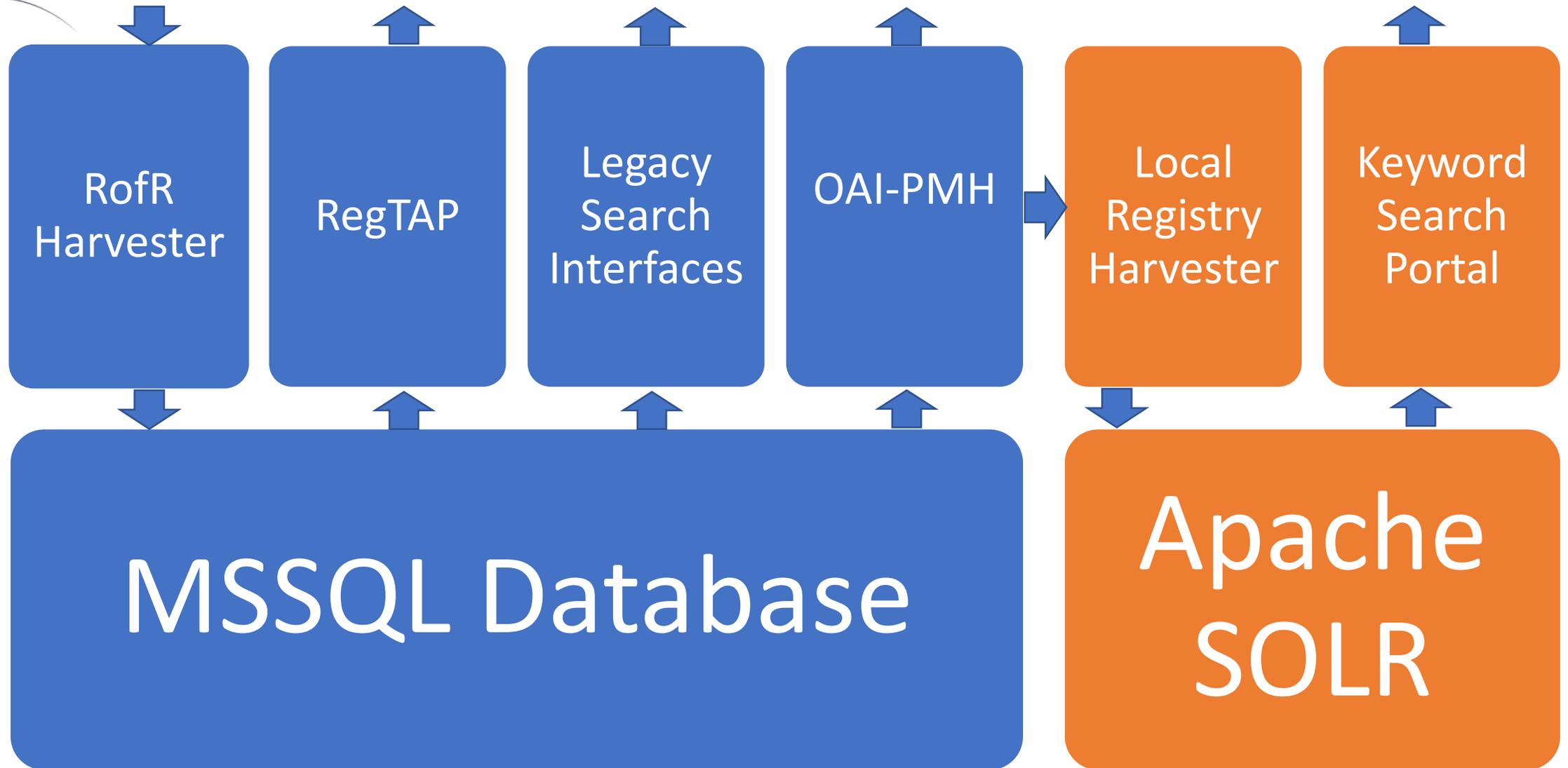


MAST VO Data Service Architecture



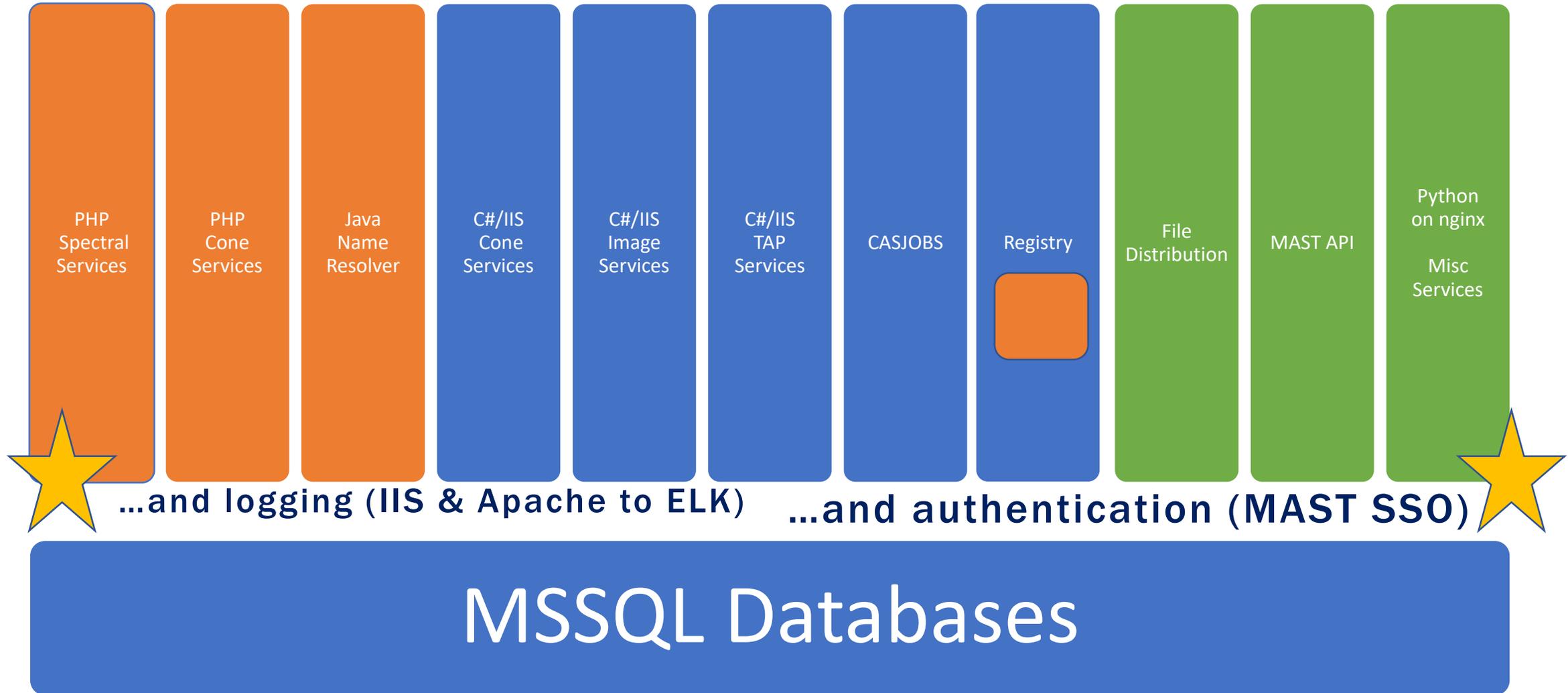


MAST Registry Architecture



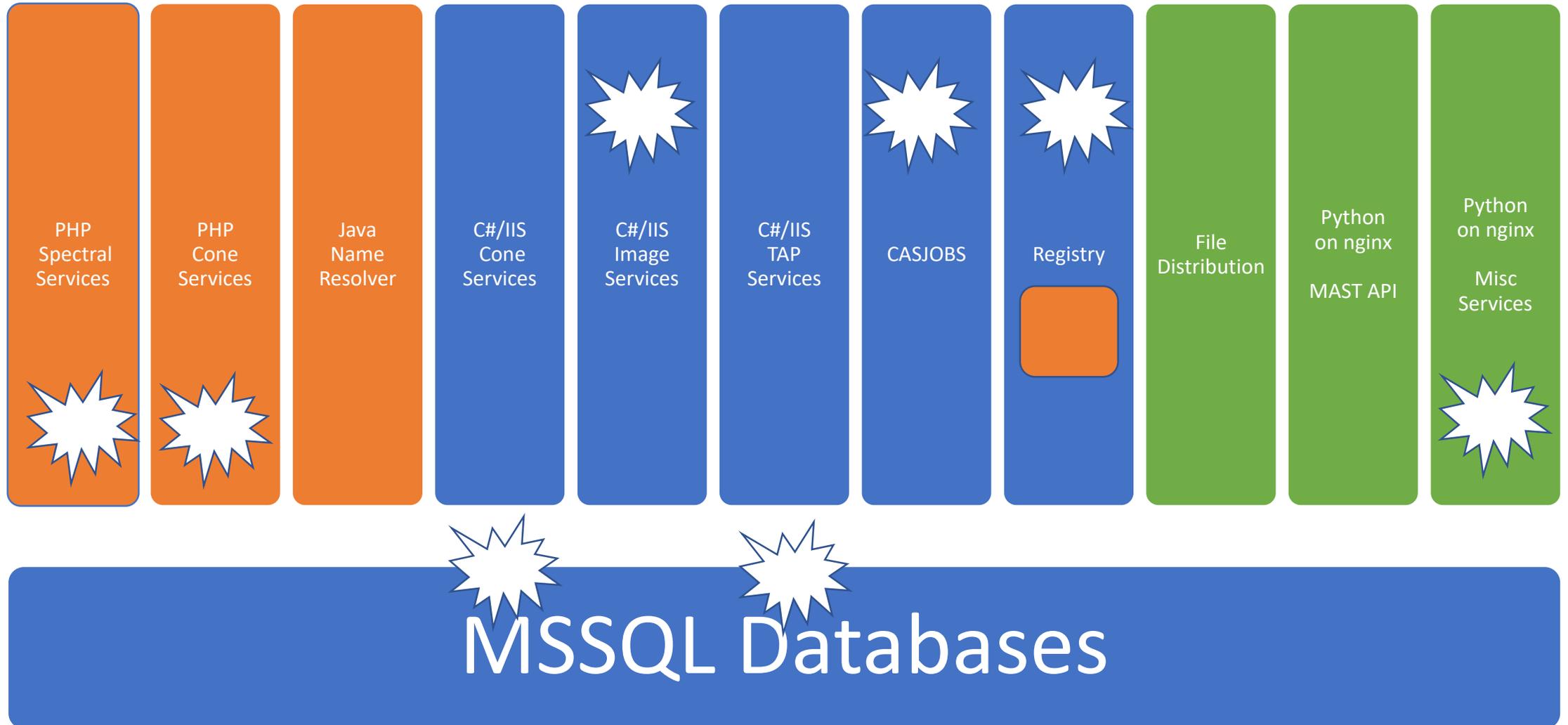


MAST Total Data Service Architecture





MAST Total Data Service Architecture





MAST VO Operations Roadmap

- Building up TAP support for bigger and bigger catalogs
- Consolidating metadata master copy
- TAP or Python microservice layer for legacy services



MAST VO Operations Roadmap

- We are probably going to always have more than one way to do things
- The point is to have fewer, more consistent, and more integrated stacks for doing them



MAST VO Operations Roadmap

- From this, more integrated metrics
- Next time?

