



adaptTo()

APACHE SLING & FRIENDS TECH MEETUP
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Caching the uncacheable

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Who are we?



- Senior Technical Consultant
 - Adobe Systems
 - ACS – Commons
 - Accenture



- Technical Consultant
 - Adobe Systems
 - CoreMedia AG

Outline

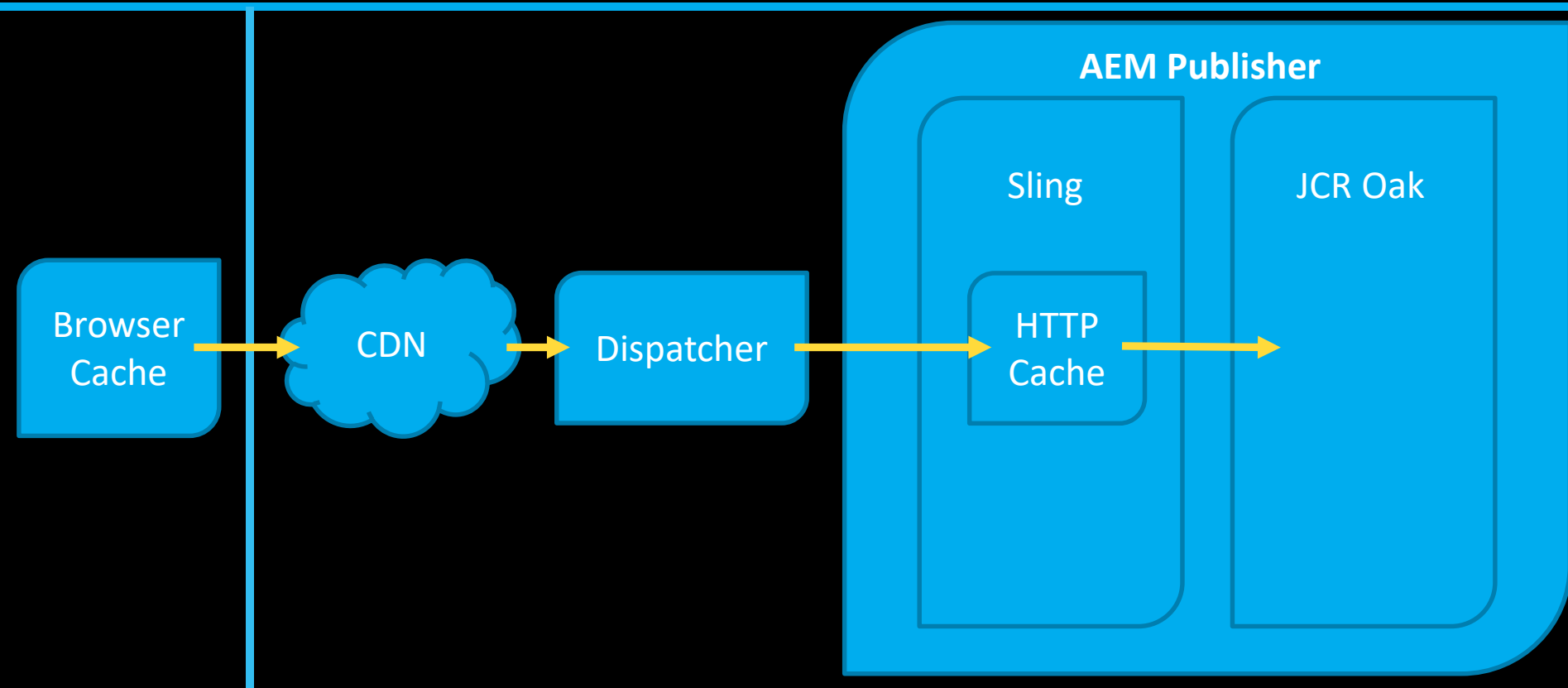
- 'Http Cache' Overview
- Live example
- Comparison

What is it / What does it do?

Extended Caching Layer #1

- Theory → ACS Commons Module v Granite
- Can cache any HTTP response
- Cache the *uncacheable*
 - Leverage cache for performant personalization
 - ↔ other mechanisms
- Complex use cases

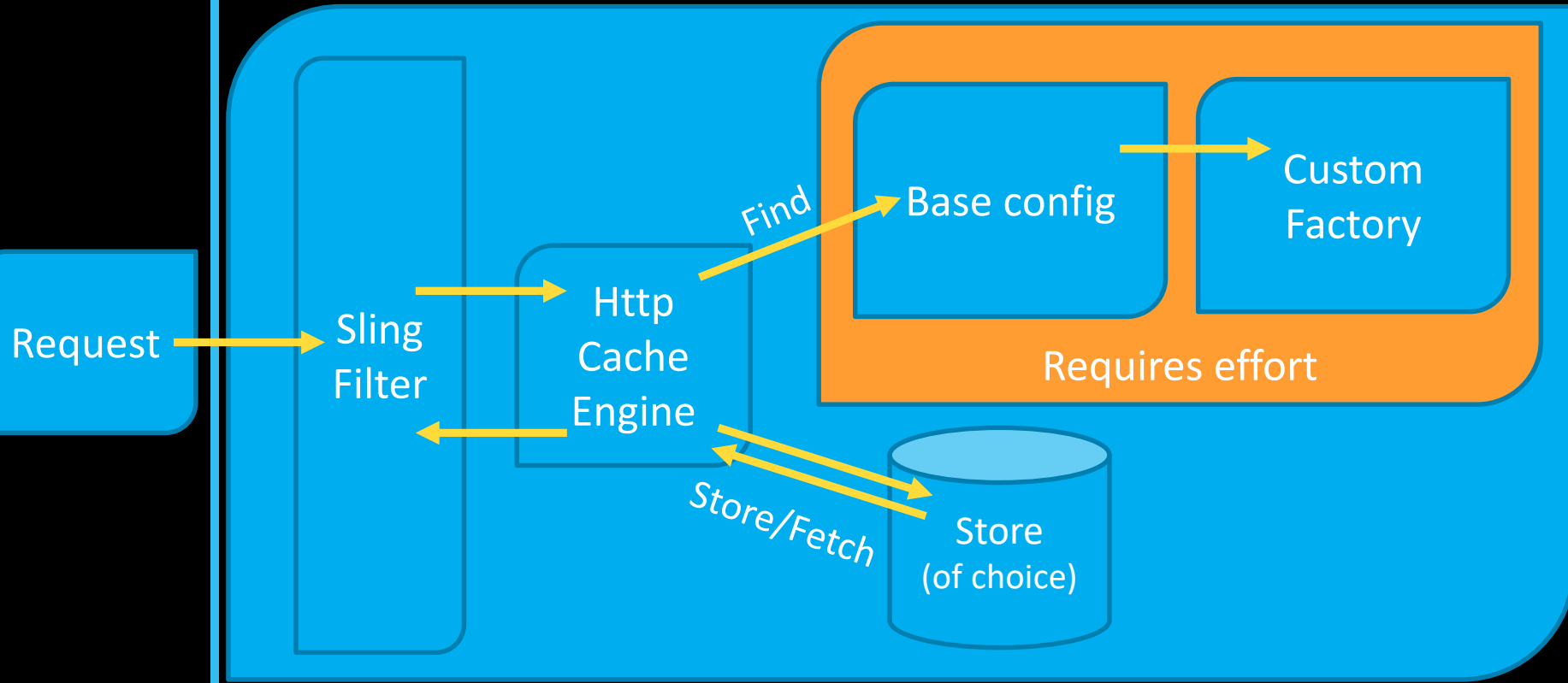
Context



Extended Caching Layer #2

- Feature rich
 - Header, Cookie, Parameter [...]
 - OOTB Invalidation + JMX Debugging
- Extensible
 - Dev Hooks → any Service
- OSGi config based

Data Flow



Live Example

Comparison

Comparison - a little context

- Granite HTTP Cache?
- ACS AEM Commons HTTP Cache?
- What's the difference?

Comparison Matrix

	Complexity	Scalability	Extensibility	Control

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Browser Cache	Low	Highest	None	Low

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Granite HTTP Cache	Medium	Medium	High	High

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Dispatcher	Medium	High	Low	Medium
Granite HTTP Cache	Medium	Medium	High	High
AEM Commons HTTP Cache	High	Medium	Highest	Highest

Instrumentation – sling:OsgiConfig

Base factory configuration

- `[...].filter-scope = „INCLUDE“`
- `[...].requesturi.patterns = „[/content/my-site/(.*).html]“`
- `cacheConfigExtension.target =`
`„(&(service.factoryPid=myfactory) (config.name=myextensionName))“`
- `cacheKeyFactory.target =`
`„(&(service.factoryPid=myfactory) (config.name=myextensionName))“`

Factory Configuration

- **ResourceType Factory (ootb)**
 - `config.name = „myextensionName“`
 - `[...].resourcetypes.allowed = „[/apps/cacheable-comp]“`
 - `[...].resourcetypes.superType = „{Boolean} true“`
- **myfactory-myExtension.xml**
 - `config.name = „myextensionName“`
 - `myDistinctProperty = „adaptTo-2019“`

- <https://adobe-consulting-services.github.io/acs-aem-commons/features/http-cache/index.html>
- <https://github.com/niekraaijmakers/layout-wcm-pages>
- Tutorial Videos
 - <https://www.youtube.com/user/Sc0rp1c0m/videos>
- <https://helpx.adobe.com/experience-manager/6-2/sites/developing/using/reference-materials/javadoc/com/adobe/granite/httpcache/api/CacheHandler.html>
- <https://lucanerlich.com>