



**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

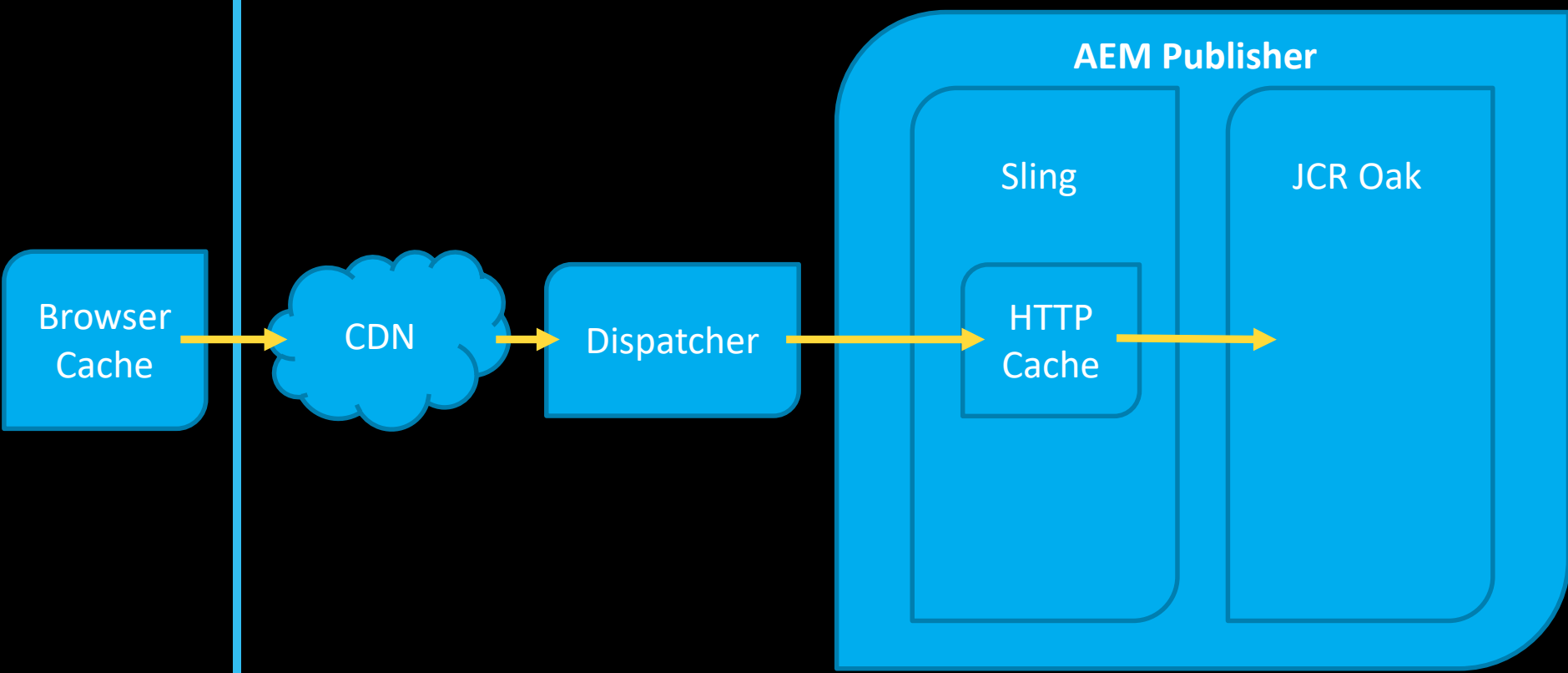
# What is it / What does it do?

# 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



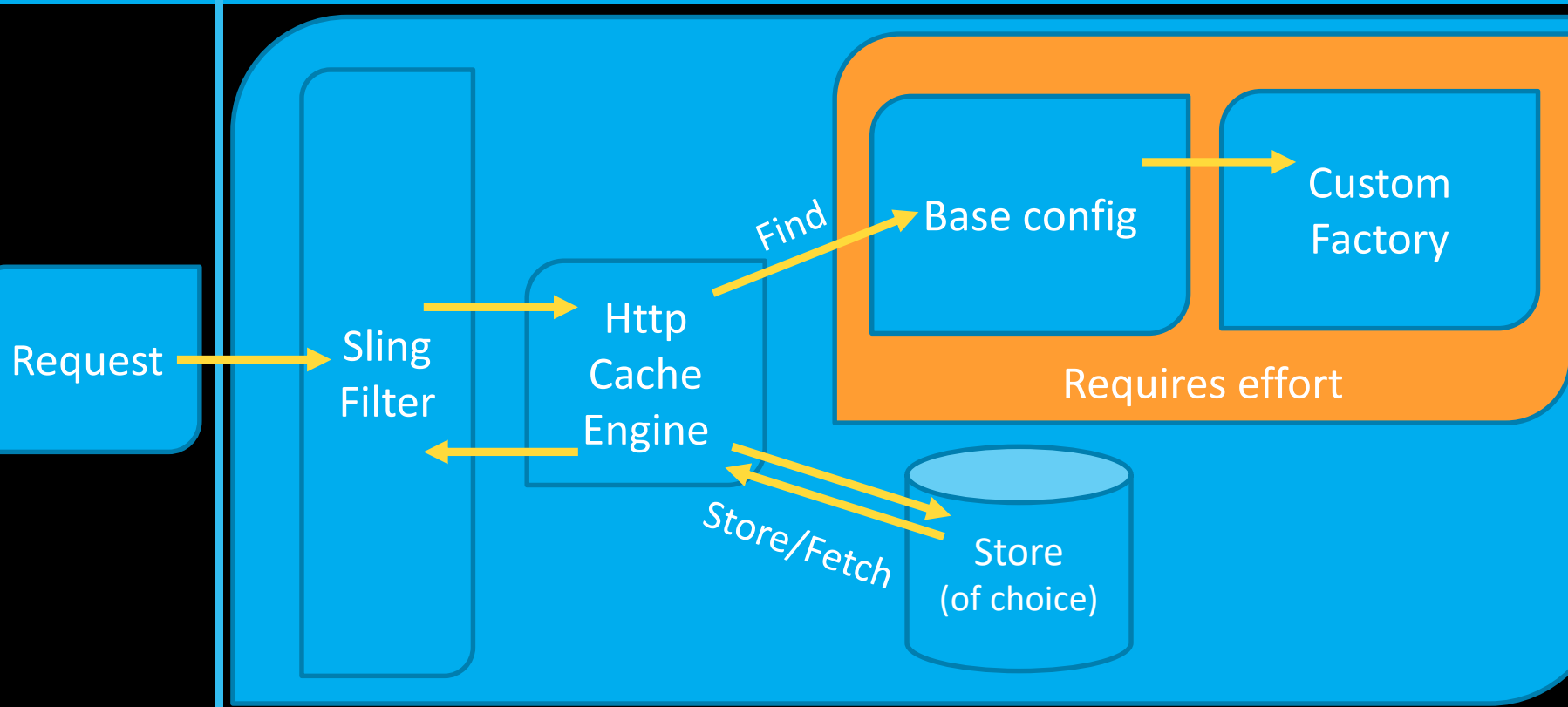
# Context



# 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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	Complexity	Scalability	Extensibility	Control
Browser Cache	Low	Highest	None	Low
<b>CDN</b>	<b>Depends</b>	<b>Higher</b>	<b>None to low</b>	<b>Depends</b>

# Comparison Matrix

	Complexity	Scalability	Extensibility	Control
Browser Cache	Low	Highest	None	Low
CDN	Depends	Higher	None to low	Depends
<b>Dispatcher</b>	<b>Medium</b>	<b>High</b>	<b>Low</b>	<b>Medium</b>

# Comparison Matrix

	Complexity	Scalability	Extensibility	Control
Browser Cache	Low	Highest	None	Low
CDN	Depends	Higher	None to low	Depends
Dispatcher	Medium	High	Low	Medium
<b>Granite HTTP Cache</b>	<b>Medium</b>	<b>Medium</b>	<b>High</b>	<b>High</b>

# Comparison Matrix

	Complexity	Scalability	Extensibility	Control
Browser Cache	Low	Highest	None	Low
CDN	Depends	Higher	None to low	Depends
Dispatcher	Medium	High	Low	Medium
Granite HTTP Cache	Medium	Medium	High	High
<b>AEM Commons HTTP Cache</b>	<b>High</b>	<b>Medium</b>	<b>Highest</b>	<b>Highest</b>

# 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)“`

- **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/Sc0rpc0m/videos>
- <https://helpx.adobe.com/experience-manager/6-2/sites/developing/using/reference-materials/javadoc/com/adobe/granite/httpcache/api/CacheHandler.html>
- <https://luca nerlich.com>