

Item 289

#### **git\_comments:**

1. CapabilityCircuitBreaker

#### **git\_commits:**

1. **summary:** Fix #1396: use circuitbreaker capability from runtime  
**message:** Fix #1396: use circuitbreaker capability from runtime

#### **github\_issues:**

1. **title:** Detect camel-microprofile-fault-tolerance for Circuit Breaker  
**body:** In Camel 3.3 we have support for MP fault tolerance.  
<https://issues.apache.org/jira/projects/CAMEL/issues/CAMEL-14179> Camel K should be able to detect this as an impl. And we should ideally pick this impl if there is no explicit import on the other implementations.
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1. So it seems this should be in the inspector to detect this similar to what is done with hystrix. And also hystrix is deprecated now in Camel 3.4 onwards, so lets use this one as the default (works also better with quarkus) and is active maintained.
2. PR on camel-k-runtime <https://github.com/apache/camel-k-runtime/pull/350>

#### **github\_pulls:**

#### **github\_pulls\_comments:**

#### **github\_pulls\_reviews:**

#### **jira\_issues:**

1. **summary:** camel-microprofile-fault-tolerance - Add circuit break support  
**description:** We should add support ala hystrix eip in Camel DSL to use microprofile CB. And then deprecate hystrix as its not so active maintained anymore (but its battle tested and used in large productions)
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**label:** code-design
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#### jira\_issues\_comments:

1. Not sure how much work it will be but maybe we can replace the `*hystrix*` dsl with a generic `*circuitBreaker*` one and have hystrix or mp fault tolerance as possible impl ?
2. I think we should have a pluggable generic EIP like `*{{circuitBreaker}}*` or `*{{faultTolerant}}*` and support potentially more than one implementation, as we do for `*{{master component}}*` as an example. And remove `{{hystrix}}` eip.
3. Yes MP now no longer uses hystrix so hopefully its easier to integrate with Camel  
<https://quarkus.io/blog/quarkus-fault-tolerance-4-0/>
4. **body:** TODO: camel-blueprint XML DSL `*DONE*` TODO: bulkhead `*DONE*` TODO: timeout fallback issue `*DONE*` TODO: update CB documentation `*DONE*` TODO: more JMX stats `*DONE*` TODO: metrics reporter stats `*NO*` TODO: find out if we can get CB state (its not easily possible) `*NOT POSSIBLE*` (see <https://github.com/smallrye/smallrye-fault-tolerance/issues/69>)  
**label:** code-design
5. There is a problem with timeout api in smallrye <https://github.com/smallrye/smallrye-fault-tolerance/issues/214>