TM

TomcatCon London 2017
State of the Cat
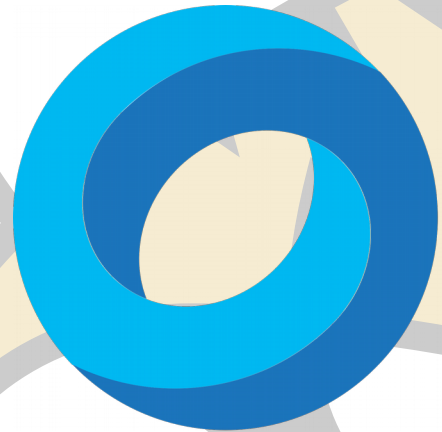
Mark Thomas

Welcome

Thank You

LIFERAY™ ®

Thank You

RedHat

Pivotal

c2b2
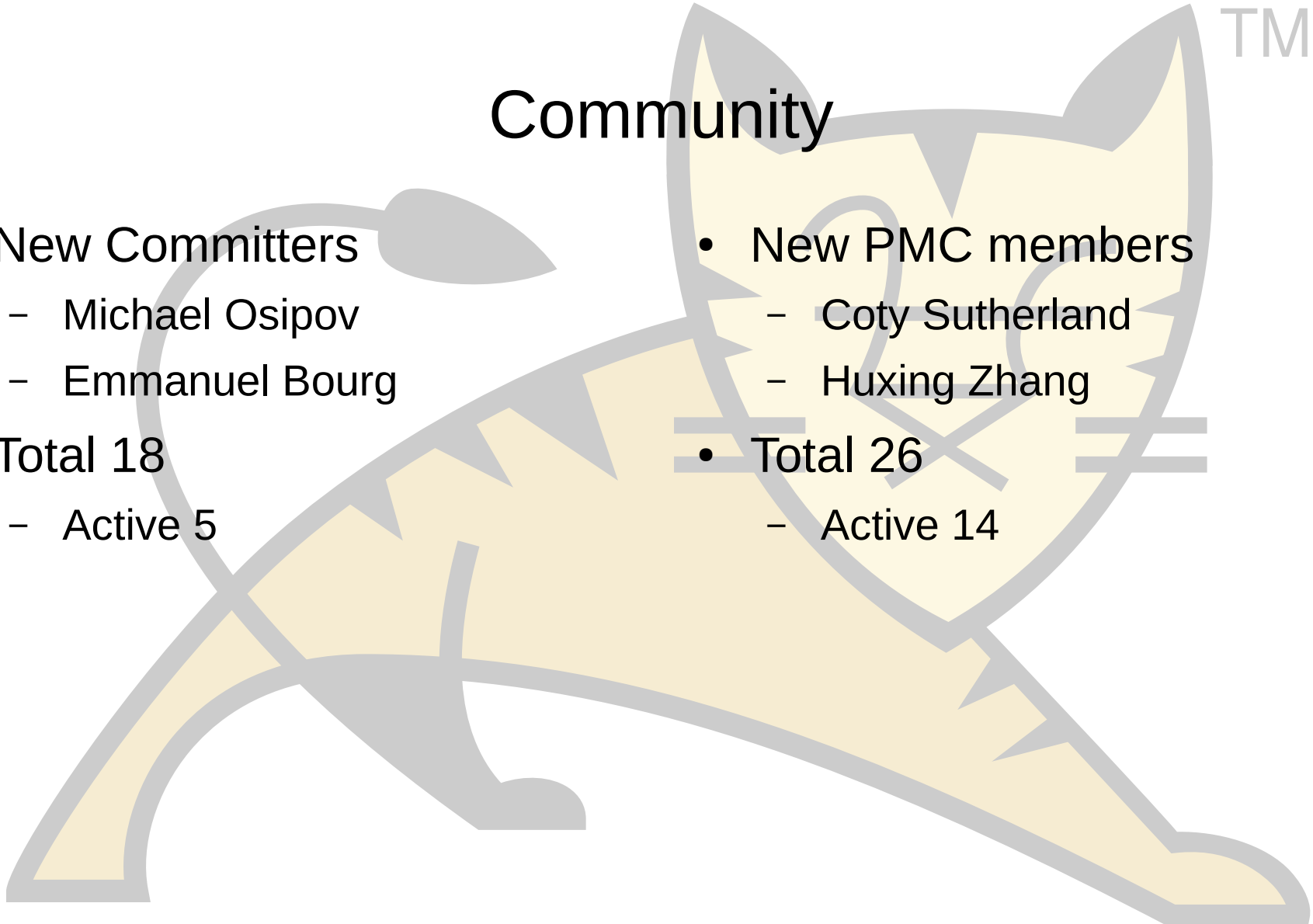middleware experts

Retrospective

Community

- New Committers
  - Michael Osipov
  - Emmanuel Bourg
- Total 18
  - Active 5

- New PMC members
  - Coty Sutherland
  - Huxing Zhang
- Total 26
  - Active 14

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Trademark – India, US

Tomcat®

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Releases

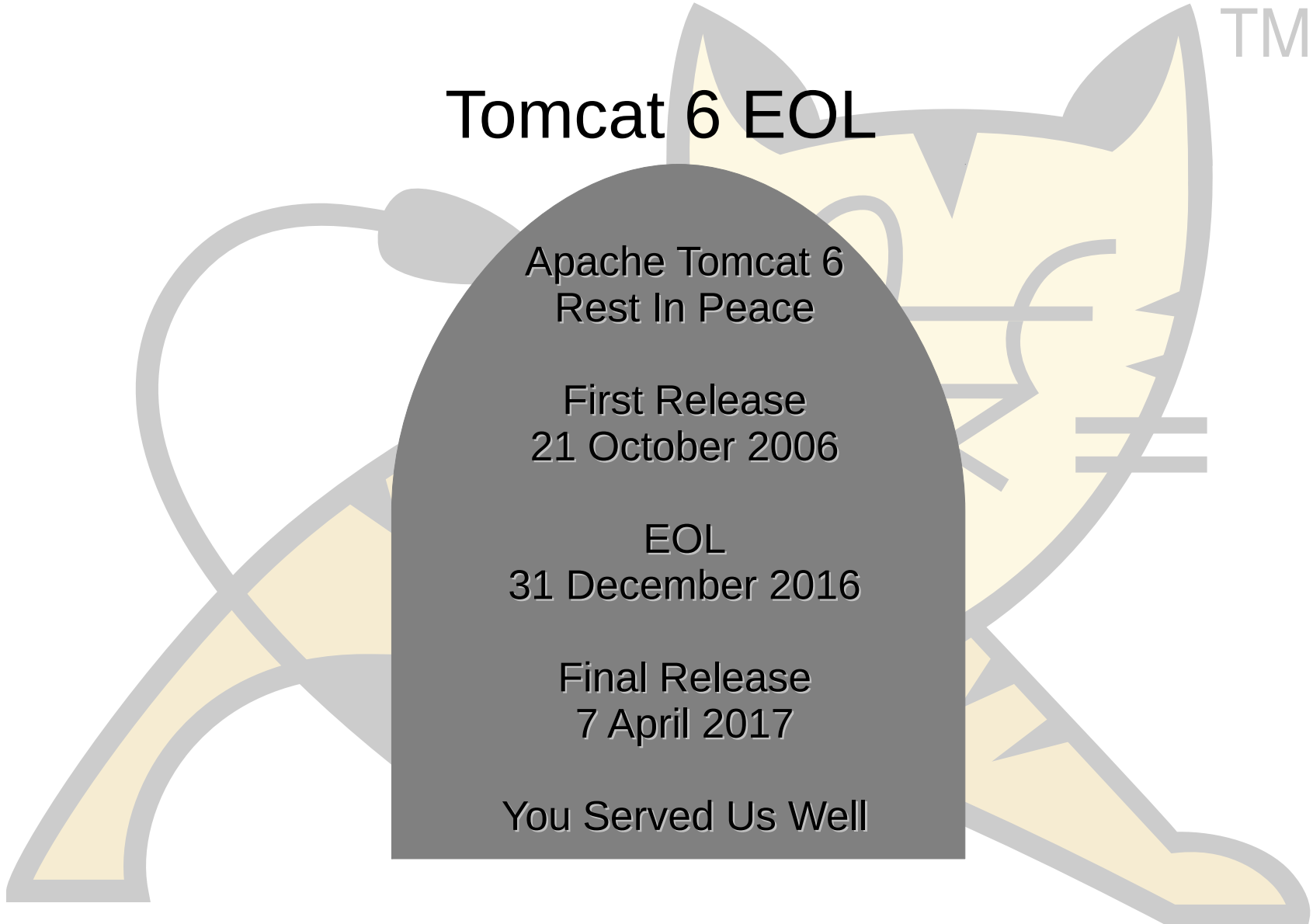|	'16 Sep	Oct	Nov	Dec	'17 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
6.0.x		🐱	🐱				🐱	🐱					
7.0.x	🐱		🐱		🐱		🐱	🐱	🐱		🐱	🐱	
8.0.x	🐱	🐱	🐱		🐱		🐱	🐱	🐱			🐱	
8.5.x	🐱	🐱	🐱	🐱	🐱		🐱🐱	🐱🐱	🐱	🐱		🐱	🐱
9.0.x	🐱	🐱	🐱	🐱	🐱		🐱🐱	🐱	🐱	🐱		🐱	🐱
native		🐱				🐱							🐱
JK		🐱											

Tomcat 6 EOL

Apache Tomcat 6
Rest In Peace

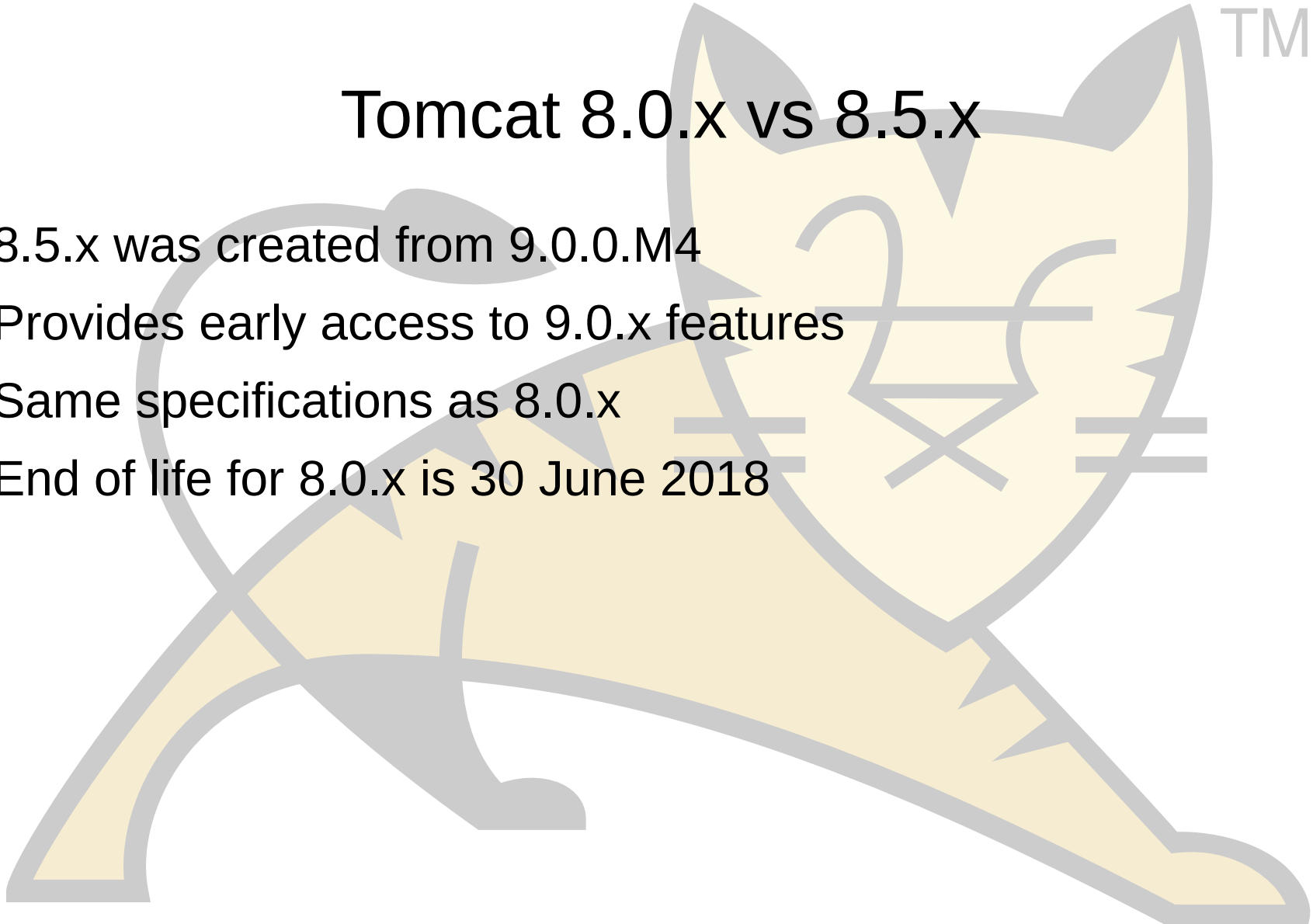First Release
21 October 2006

EOL
31 December 2016

Final Release
7 April 2017

You Served Us Well

Tomcat 8.0.x vs 8.5.x
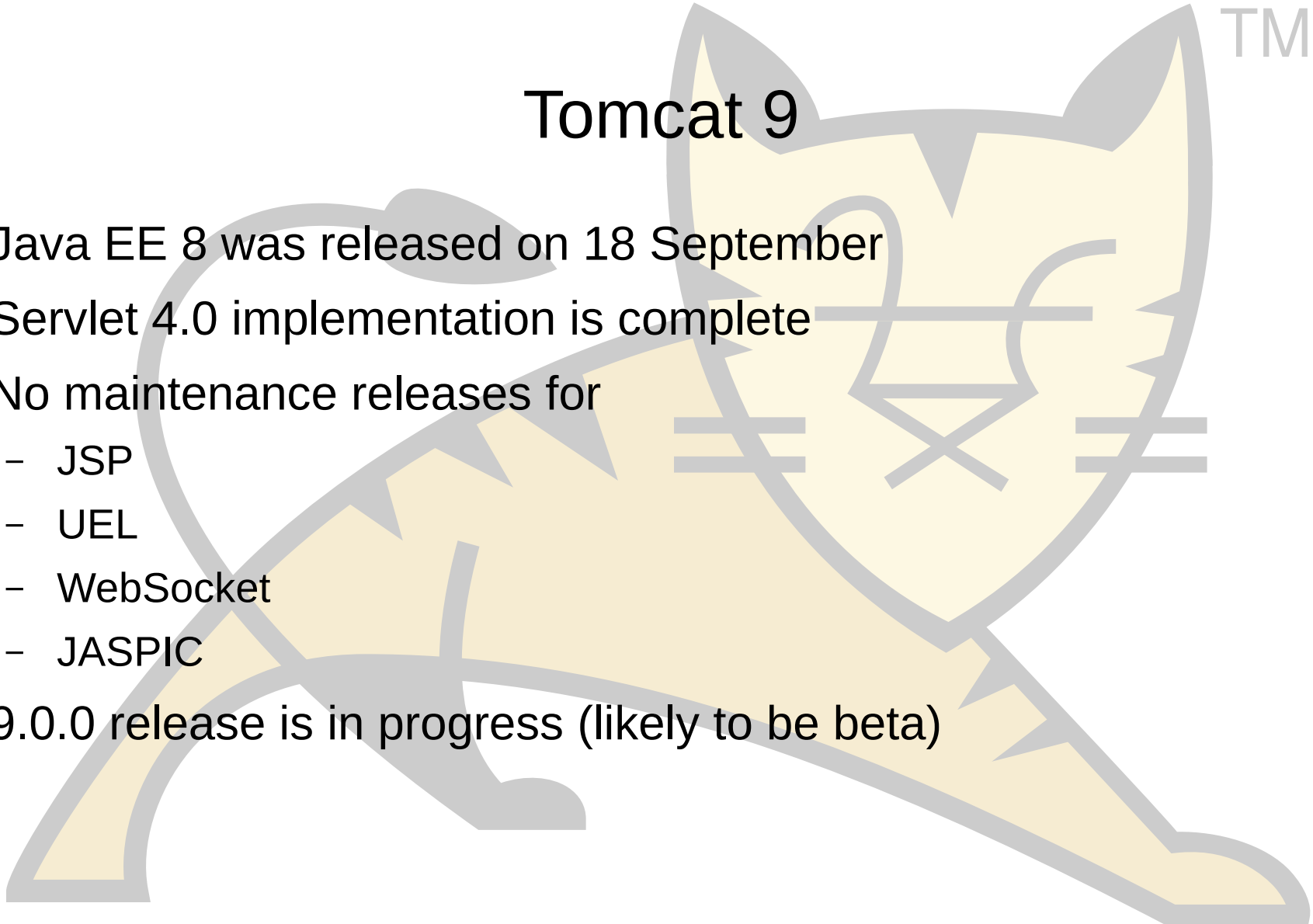
- 8.5.x was created from 9.0.0.M4
- Provides early access to 9.0.x features
- Same specifications as 8.0.x
- End of life for 8.0.x is 30 June 2018

Tomcat 9

- Java EE 8 was released on 18 September
- Servlet 4.0 implementation is complete
- No maintenance releases for
  - JSP
  - UEL
  - WebSocket
  - JASPIC
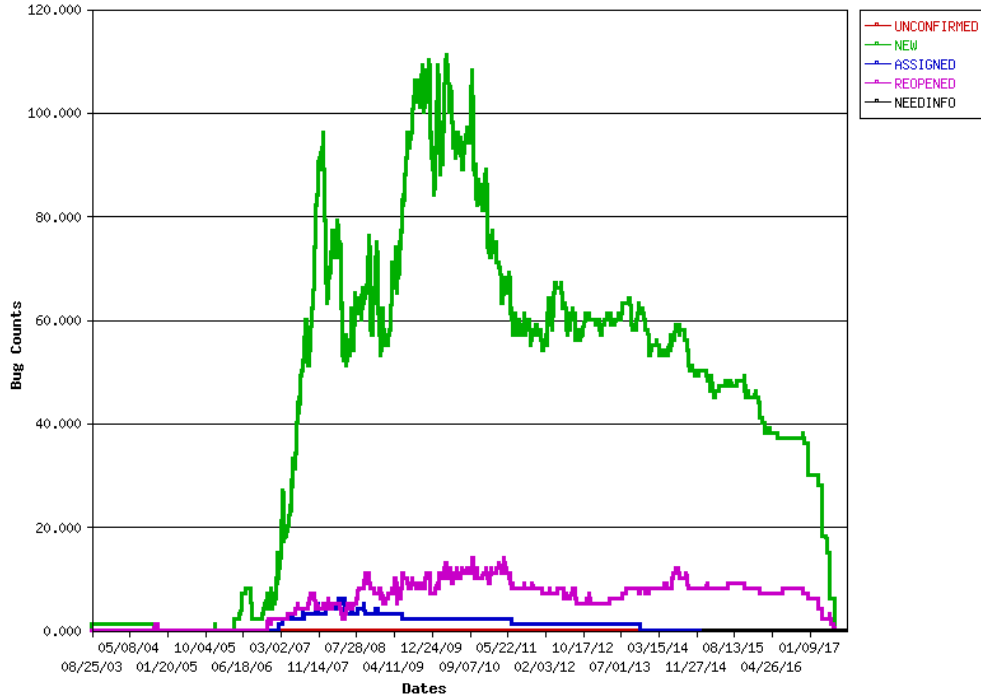- 9.0.0 release is in progress (likely to be beta)

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JRE Fixes

- UTF-8
  - Fixed for Java 9 and newer Java 8

- Memory leaks
  - Mainly around starting new threads
  - Fixed for Java 9 and latest Java 8

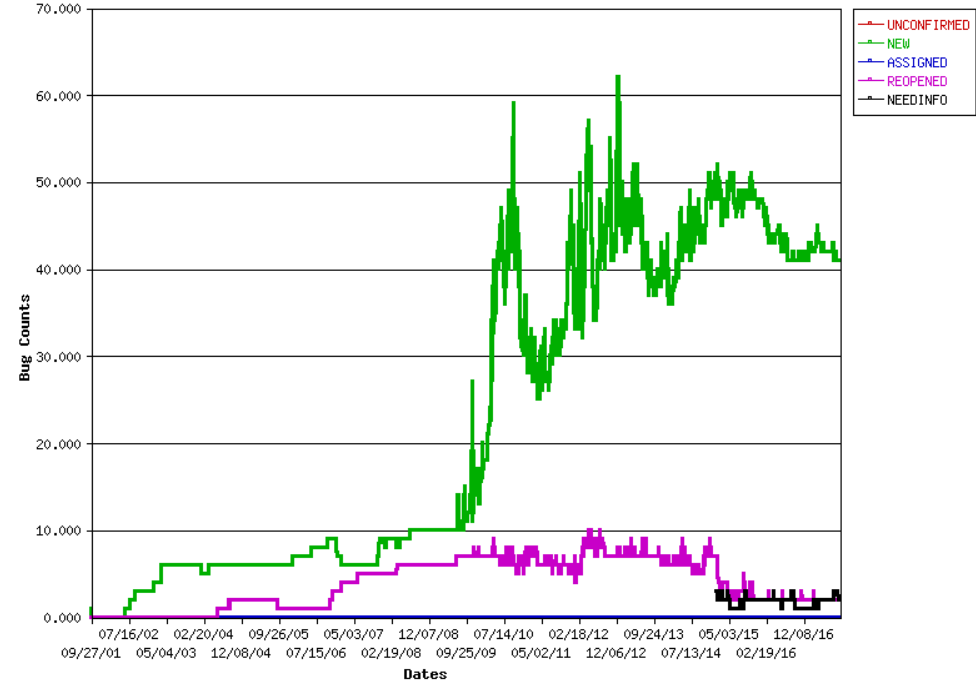- Leak tracing
  - Removed old workaround that broke profilers

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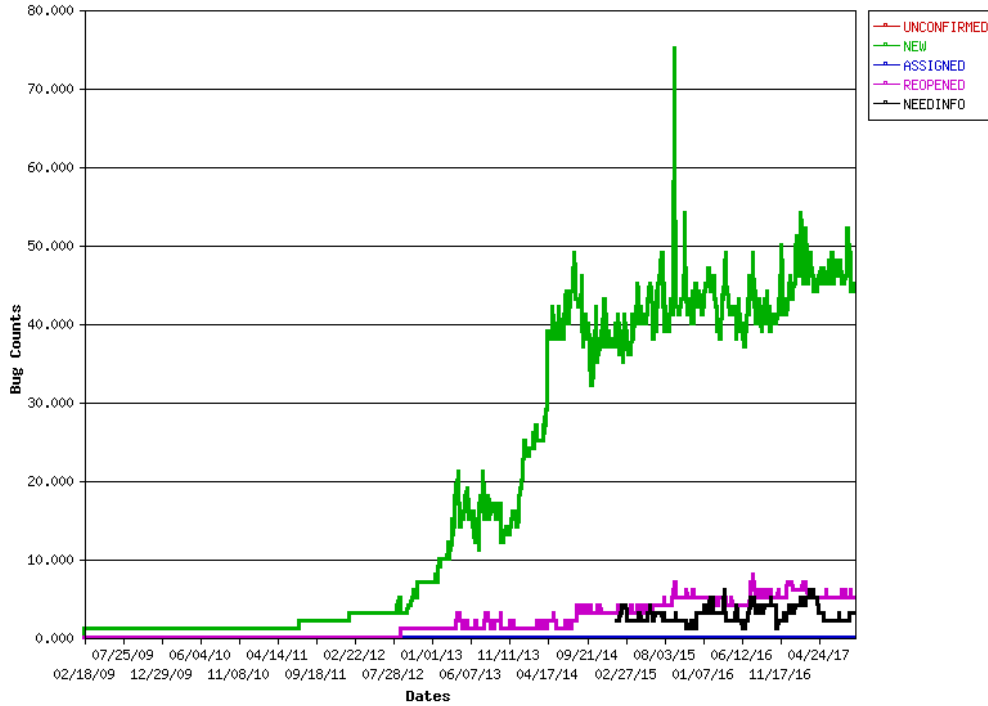
Metrics

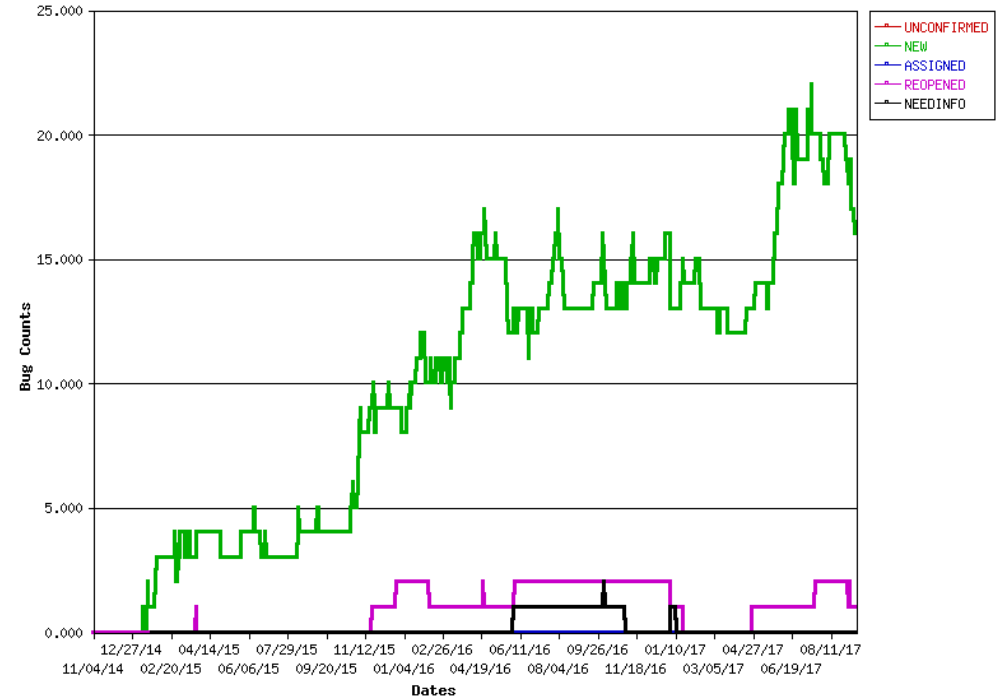Status Counts for Tomcat 6

Status Counts for Tomcat 7

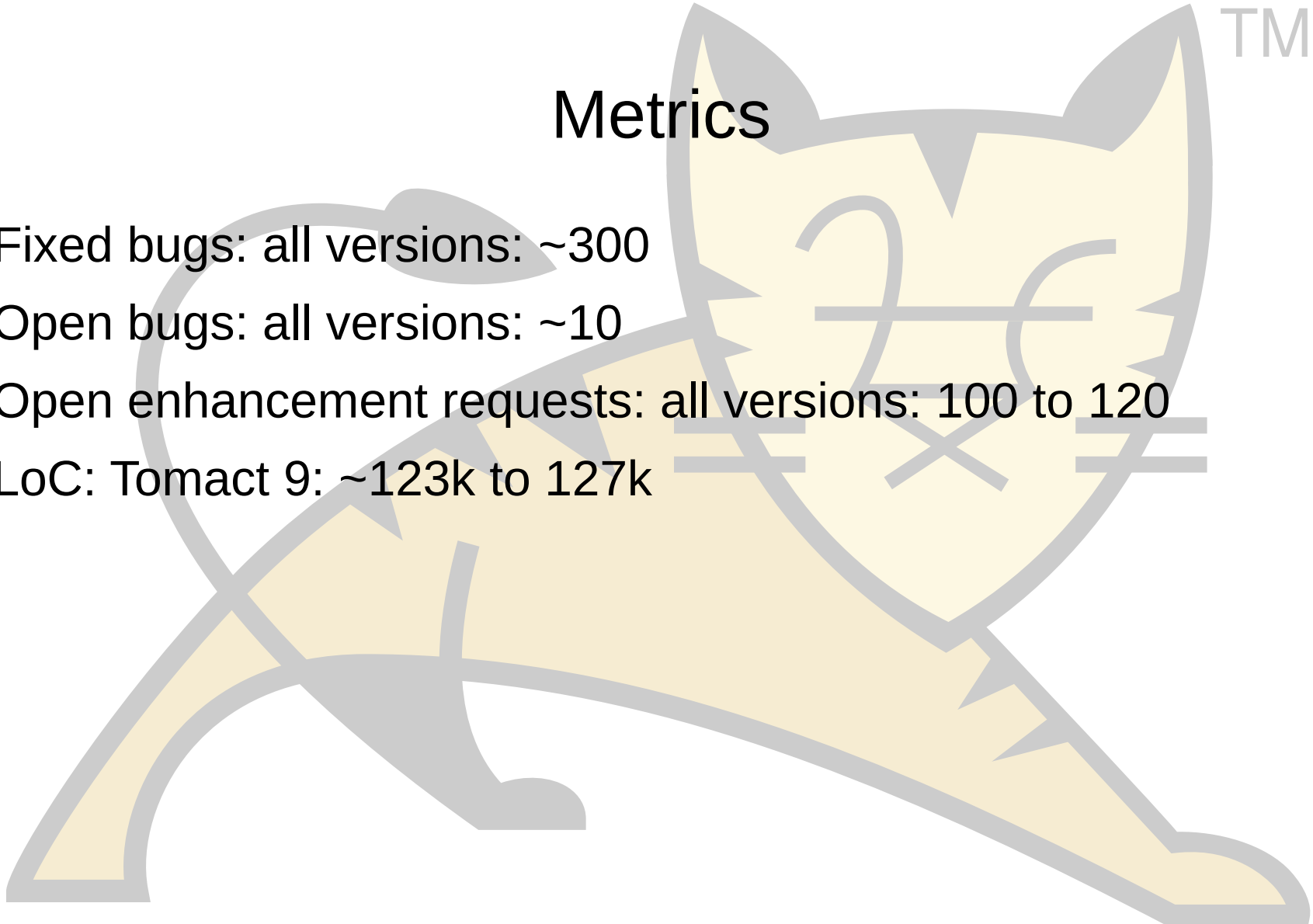# Metrics

Status Counts for Tomcat 8

Status Counts for Tomcat 9

Metrics
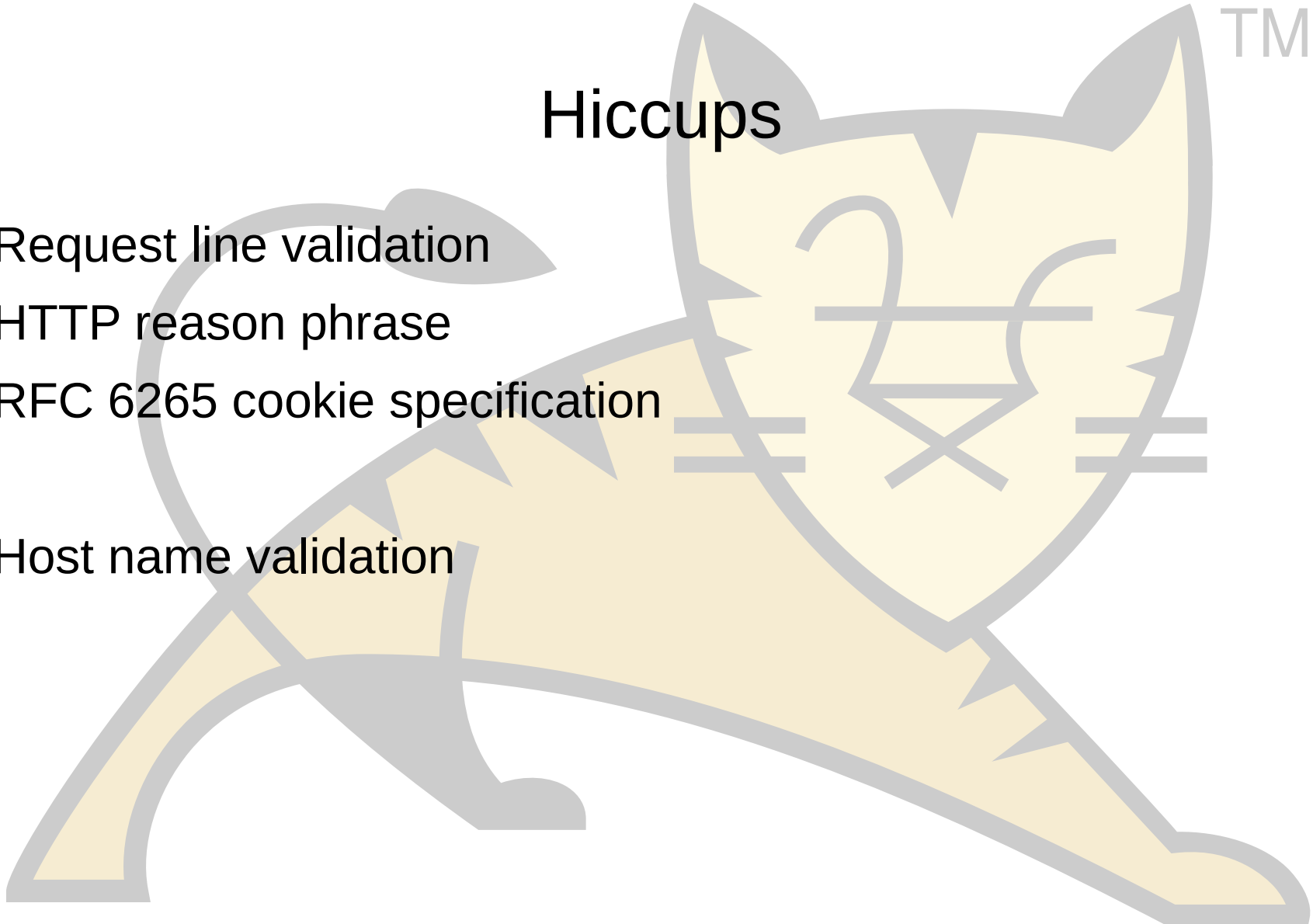
- Fixed bugs: all versions: ~300

- Open bugs: all versions: ~10

- Open enhancement requests: all versions: 100 to 120
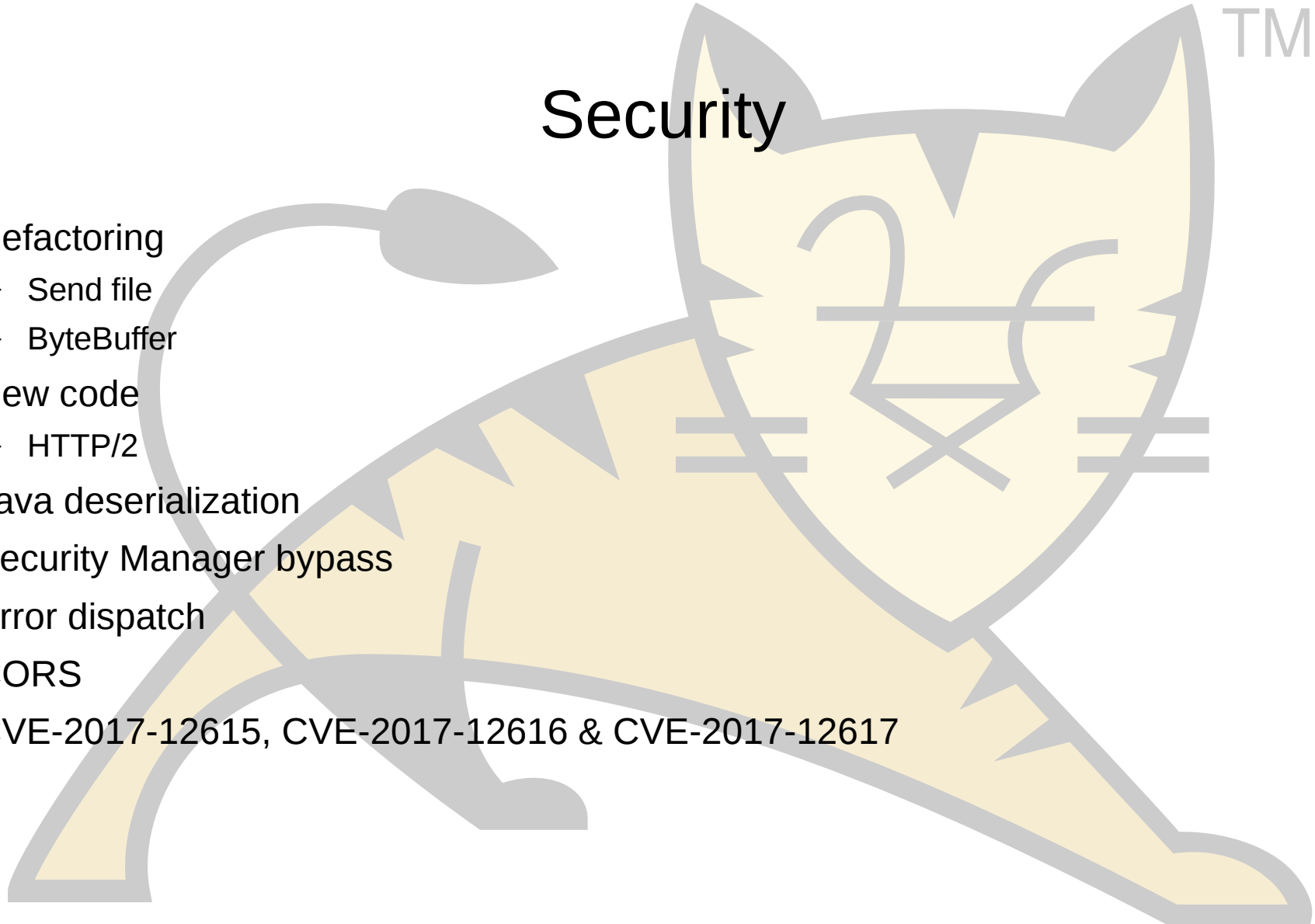
- LoC: Tomact 9: ~123k to 127k

Hiccups

- Request line validation

- HTTP reason phrase

- RFC 6265 cookie specification
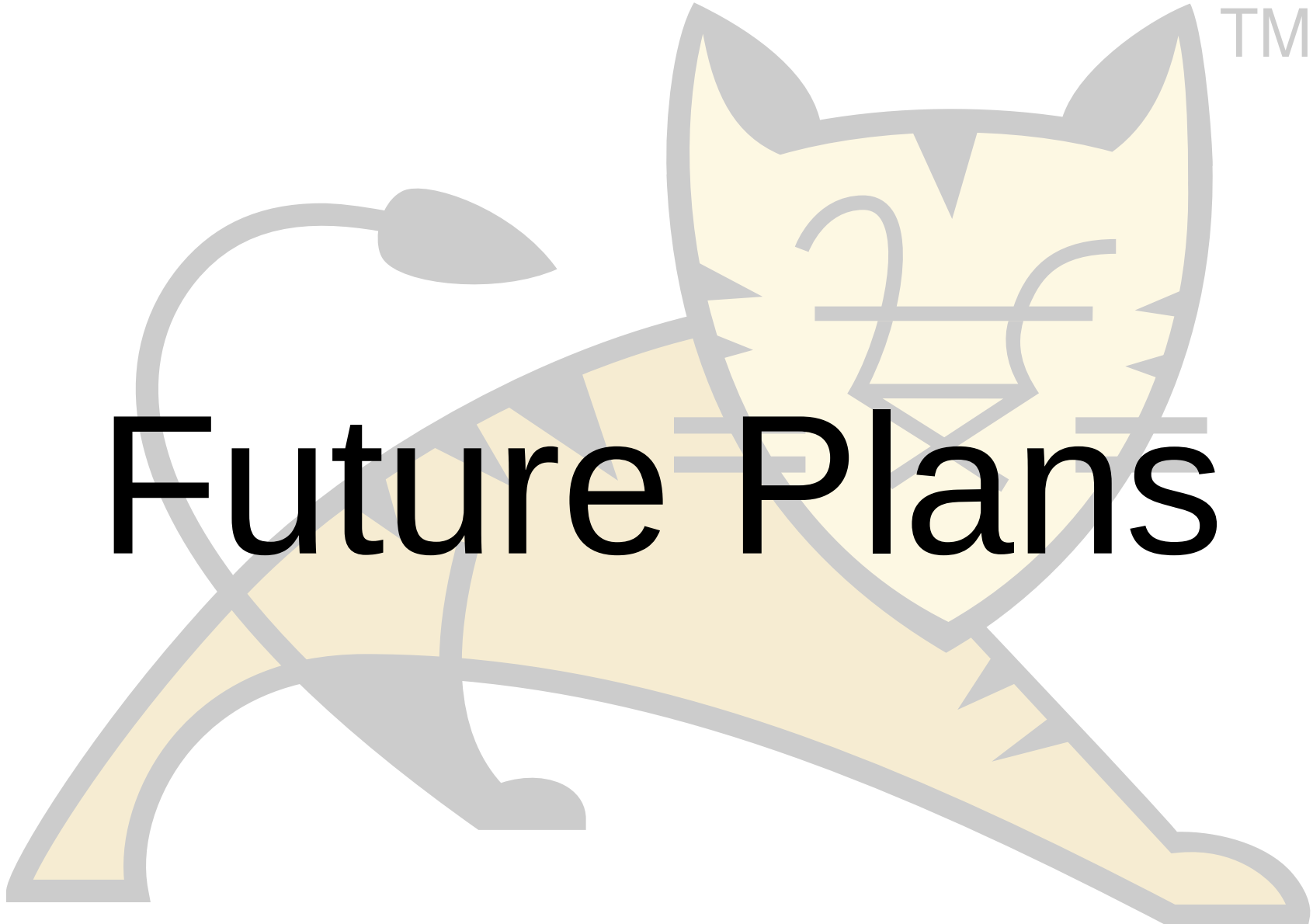

- Host name validation

Security

- Refactoring
  - Send file
  - ByteBuffer
- New code
  - HTTP/2
- Java deserialization
- Security Manager bypass
- Error dispatch
- CORS
- CVE-2017-12615, CVE-2017-12616 & CVE-2017-12617
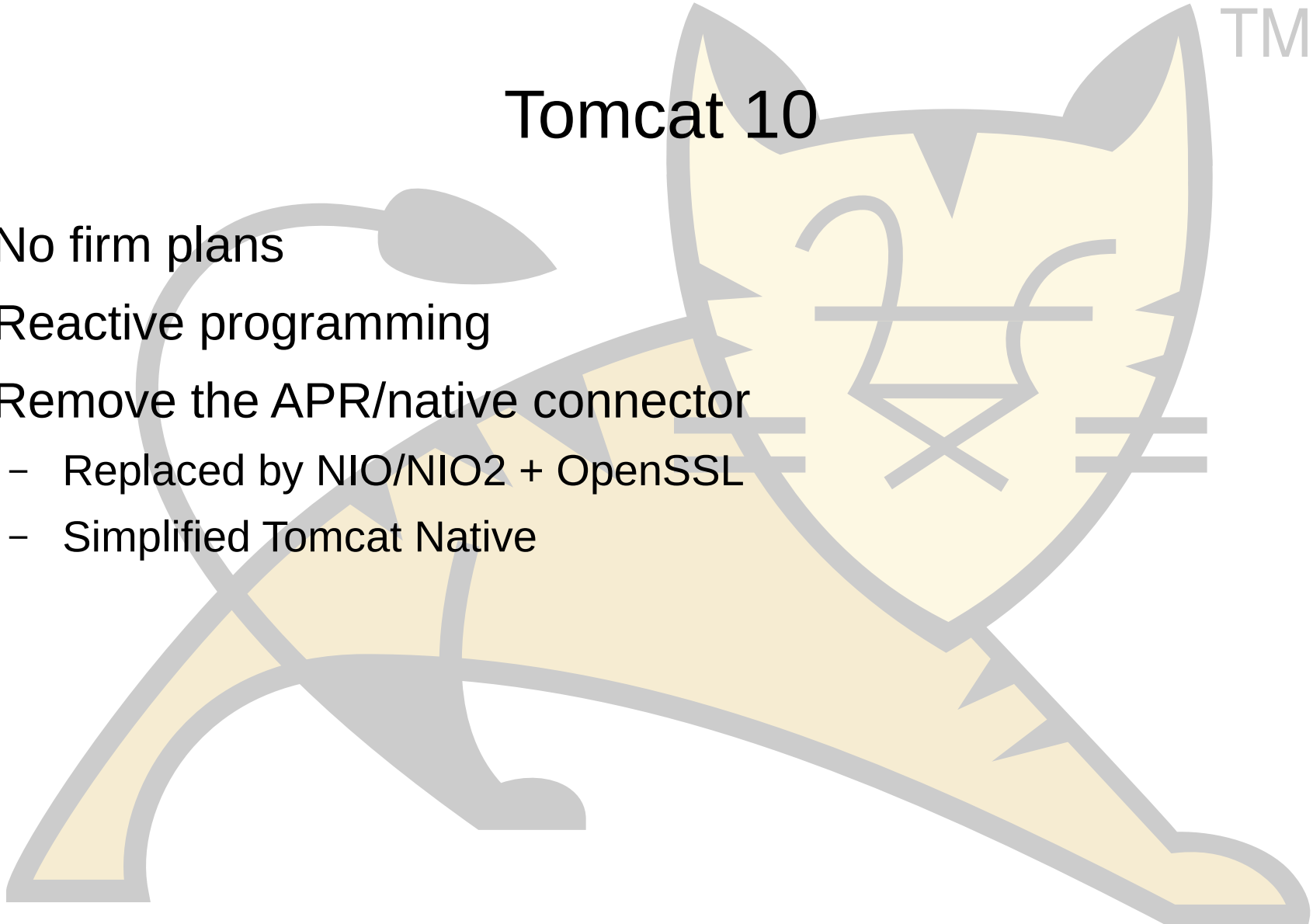
Future Plans

Tomcat 10

- Oracle is donating Java EE to the Eclipse Foundation
- There will be no Java EE 9
- There will be TBD 1.0 == Java EE 8
- TBD 2.0 will then follow
  - This is where functionality targeted at Java EE 9 is expected to land

Tomcat 10

- No firm plans

- Reactive programming

- Remove the APR/native connector
  - Replaced by NIO/NIO2 + OpenSSL
  - Simplified Tomcat Native

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Questions

Thank you