

**STATE OF THE CAT**

# INTRODUCTIONS

markt

Tomcat committer since 2003

Tomcat PMC member since 2005

Also Commons, ASF member, Infrastructure volunteer,  
VP Brand Management, former Director

# **RETROSPECTIVE**

Looking back over the last 12 months

# CELEBRATING 20 YEARS OF TOMCAT

Jakarta formed in August 1999

Tomcat 3 and Jasper code donations by Sun  
Microsystems in September

First Tomcat 3 release in December

Tomcat 4 (Catalina container) development started  
concurrently

# COMMUNITY

Igal Sapid (isapid) joined the PMC

18 committers - ~8 active

28 PMC members - ~15 active

ApacheCon NA 2018, Montreal

EU FOSSA Hackathon, Brussels

ApacheCon NA 2019, Las Vegas

# TRANSLATIONS

<http://poeditor.com>

Anyone can contribute

French moved from less than 20% to 100% coverage

Korean was added and has 100% coverage

Simplified Chinese was added and has 43% coverage

Also German, Spanish, Japanese and others have improved

# MIGRATION TO GIT

Tomcat 9.0.x, 8.5.x and 7.0.x migrated to a single Git repo

Tomcat Native migrated

mod\_jk, website, taglibs and Maven plug-in still in svn



# JRE FIXES

Highlighted potential issue with TLS 1.3 and no Post-Handshake Authentication support in JSSE.

PKCS12 handling - had to read entire file in one go

# **JRE RELEASES**

Java 10 reached EOL

Java 11 LTS has arrived

Java 12 has arrived and reached EOL

Java 13 has arrived

# METRICS

Fixed ~130 bugs

Another ~90 bugs resolved

Typically ~5 open bugs

Less than 90 open enhancement requests

133k LoC

# SECURITY

CVE-2019-0199, 10072: HTTP/2 DoS

CVE-2019-0232: CGI RCE on Windows with non-default configuration

# **NEW/IMPROVED FEATURES**

TLS configuration interoperability between JSSE and  
OpenSSL

Graal

Containers

Clustering in the cloud

**JAKARTA EE**

# **ORIGINAL TIMETABLE**

Jakarta EE 8 (== JavaEE 8) June 2018

Servlet.next (and other updated specs) December 2018

# **ACTUAL TIMETABLE**

EE4J 8 - Passed JavaEE 8 TCKs - January 2019

Jakarta EE 8 - Passed Jakarta EE TCKs - September  
2019

Jakarta EE.next - TBD

# EE4J 8

Started to see wider community engagement

Cross-project coordination was tricky (as expected)

Sense of conversations happening elsewhere

Great to have access to the TCKs again

Minor frustrations - fixes that triggered TCK failures

Fixed bugs in master ready for next iteration of the specifications

# JAKARTA EE 8

Started with a list of tasks to be completed - while I was on holiday

Seemed to be less community involvement

Greater sense of conversations happening elsewhere

Some clean-up reverted in individual APIs

Handful of bug fixes reverted in TCKs

# **CURRENT ISSUES**

Schedule for Servlet.next

Packing renaming is unresolved

Donation of Java EE not yet complete (spec text)

# **FUTURE PLANS**

# TOMCAT 10

Servlet.next (and any other updated specs)

Remove APR/native connector

Support for OpenSSL clones

Modernisation of native code

**QUESTIONS?**

**THANK YOU**

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