



Java Release Changes

From Features to Time Based, prepared for Public JCP EC Meeting

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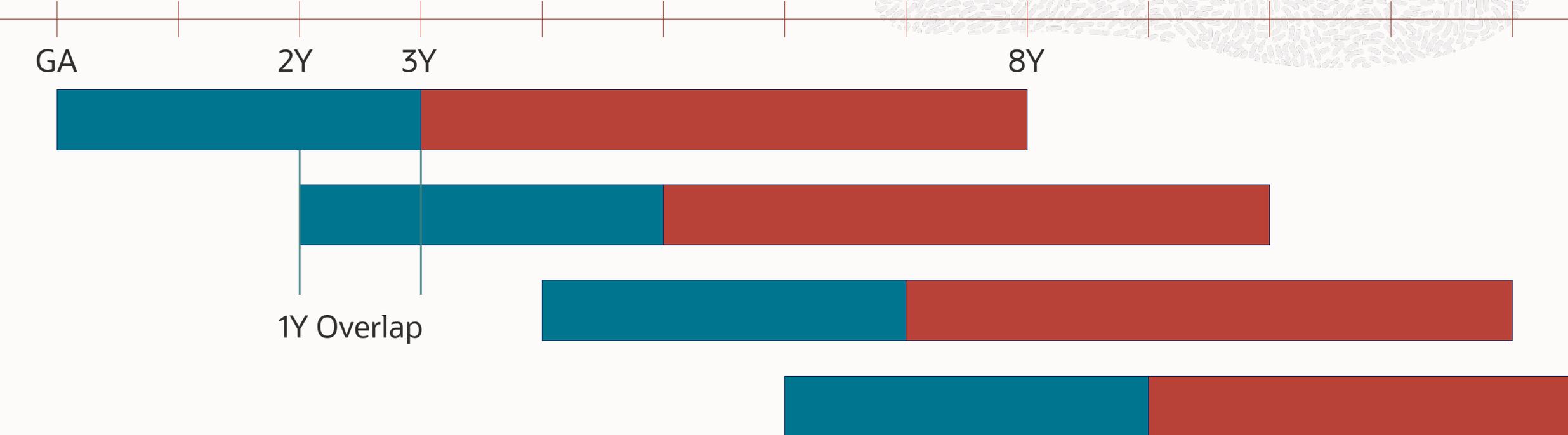
June, 2022



Content Bound Release Model [In Theory]



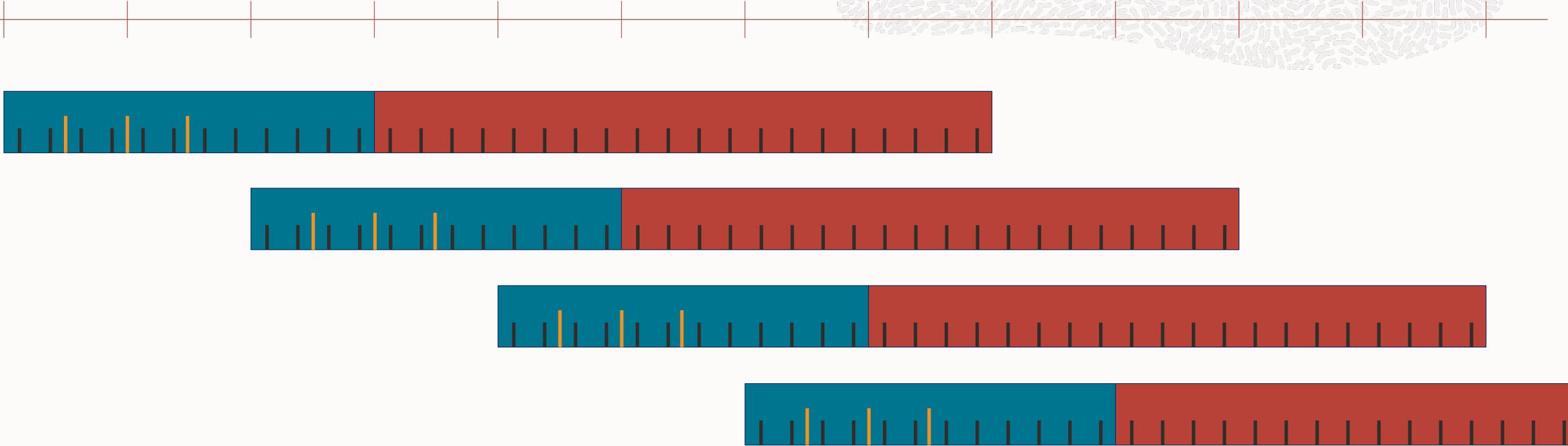
Content Bound Release Model – Public Availability vs Customer only



- Available at no cost for General Purpose Computers (Binary Code License)
- Available only to customers, published on MOS



Content Bound Release Model Minor Release and CPUs

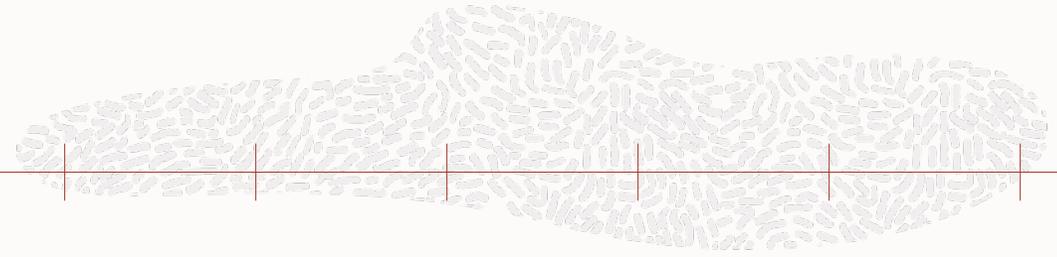


| Minor Release

| Critical Patch Update



Content Bound Release – In Reality



JDK 6
2006-12



JDK 7
2011-07



JDK 8
2014-03

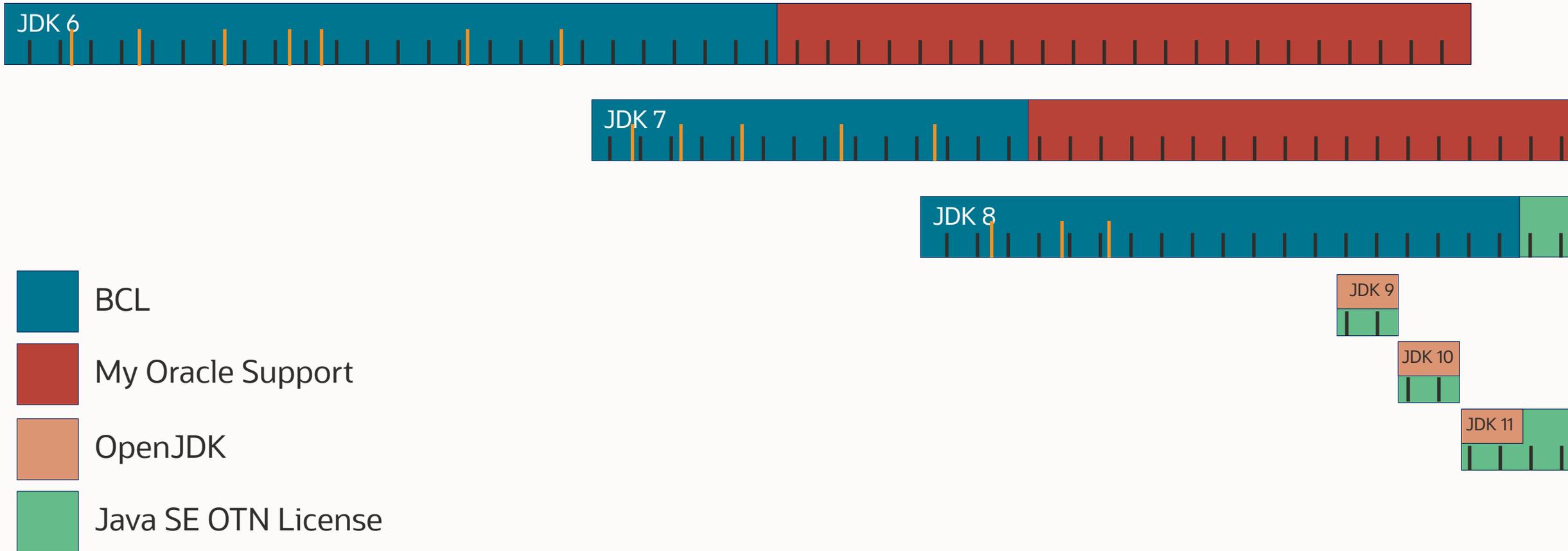


JDK 9
2017-09

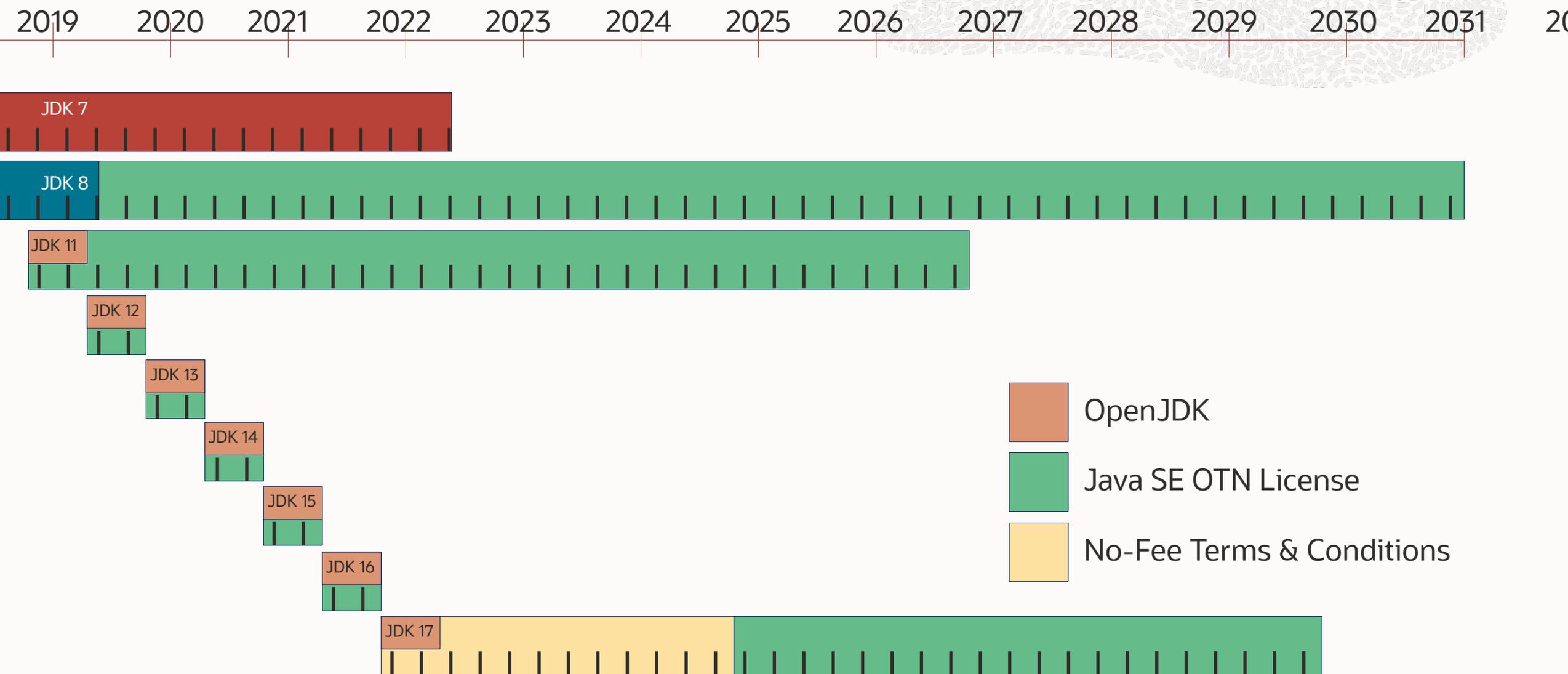


Content Bound Release – Introducing Time Bound Six-Month releases with LTS

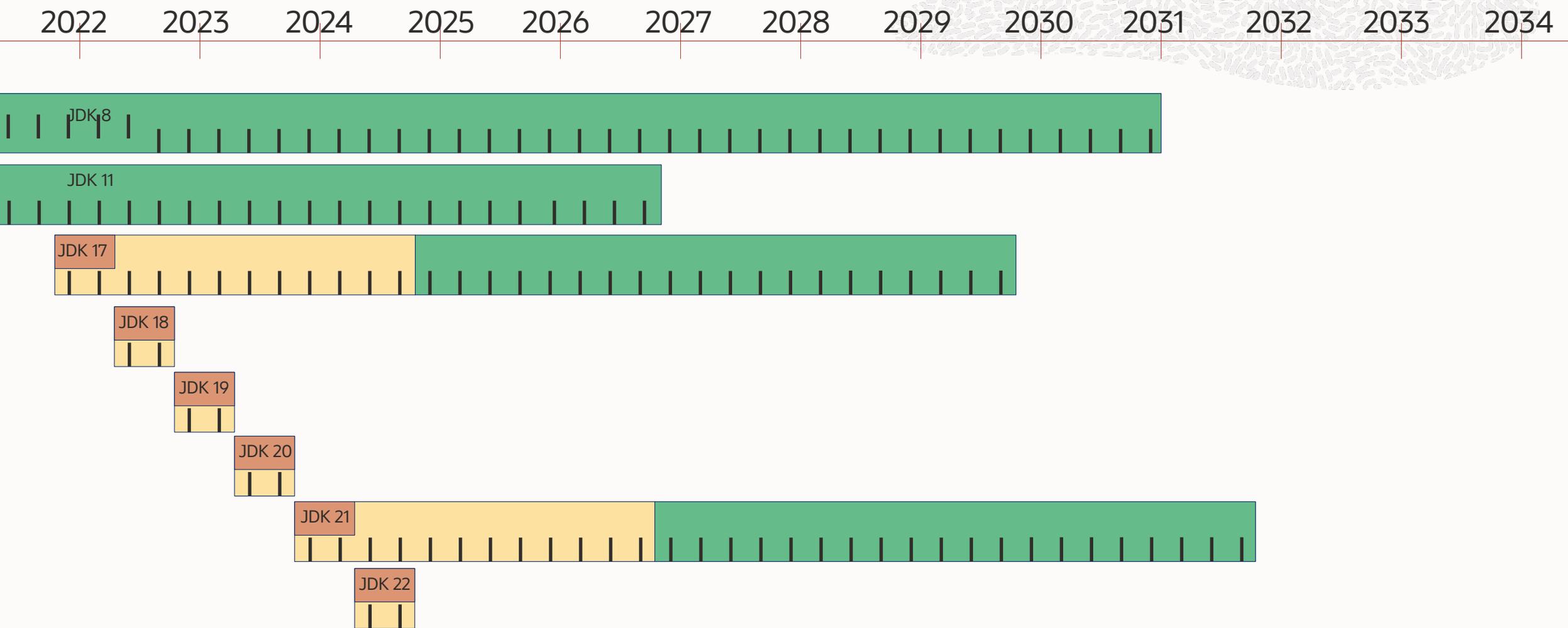
2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019



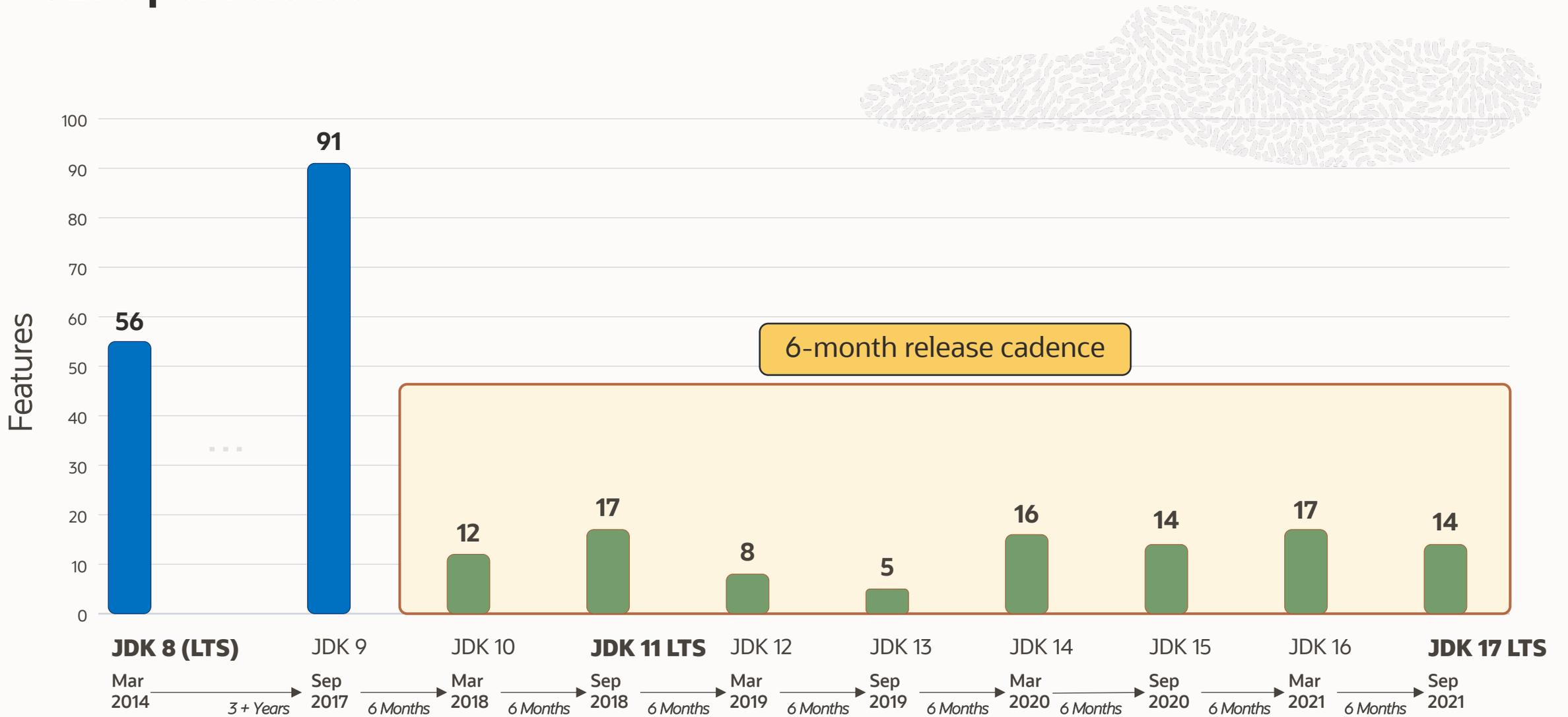
Six-month release model with LTS versions – New License NFTC



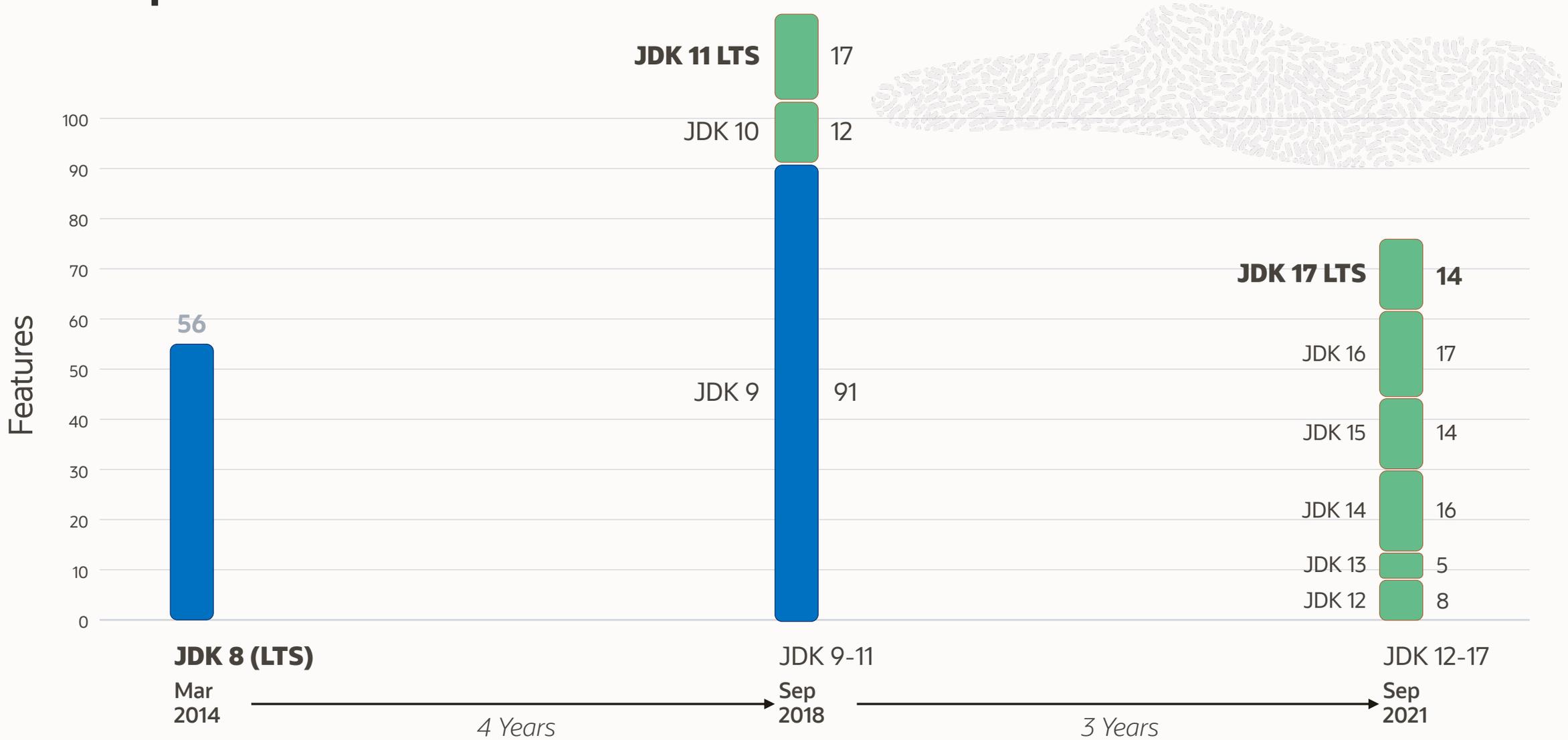
Six-month release model with LTS versions



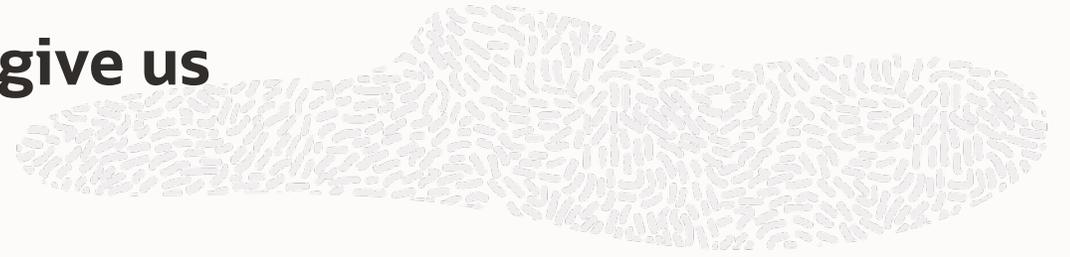
JEPs per release



JEPs per release



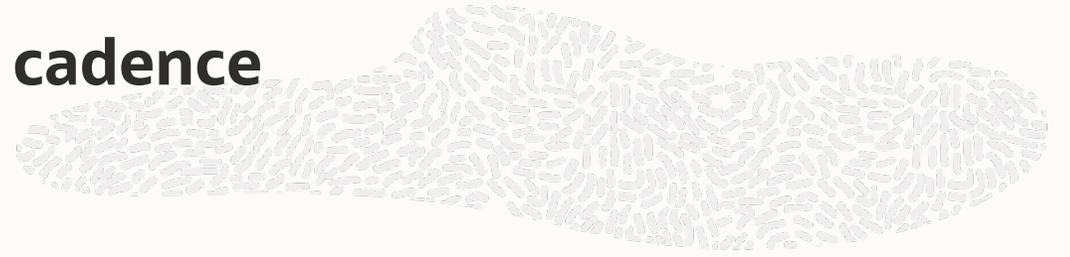
What did the six-month release cadence give us



- 9 On-time Feature Releases
- No delayed features
- Higher quality releases
- More engagement from Java Developers and System Administrators on non-final (incubator and preview) features
- Lower latency for most features, smaller features no longer need to wait for larger features
- Faster adoption by tools and libraries



Misconceptions of the six-month release cadence



OpenJDK releases are LTS or non-LTS

- LTS is a vendor-specific attribute. Each vendor chooses which releases are LTS and which are not
- Most vendors adopt the same releases that Oracle does but not all and that is not a "requirement"

Non-LTS releases are planned differently

- It took a few releases for our own developers to get used to the idea that LTS or non-LTS should not NOT be a factor when deciding when to target a feature
- There was talk about "not including previews in LTS" and "lets preview this now so it can be added to the next LTS"
 - We had to remind ourselves of point 1
 - Both LTS releases (so far) have had previews/incubators
 - Its up to the vendor to decide how/when to support previews/incubators (and standard features for that matter)



Experimental and Technology Preview Features

The Java SE products include experimental and technology preview features being considered for future versions of the product. Experimental and technology preview features are labeled as such in the product documentation. They are not meant to be used in production and are not supported by Oracle. Oracle welcomes feedback on experimental and technology preview features but users should be aware that experimental and technology preview features might never be included in a production version, or might change significantly before being considered production-ready.

Licensing Information User Manual
Oracle Java SE 18

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