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On the Use of Replacement Messages in API Deprecation: An Empirical Study

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**Highlights**

- We measure the use of API deprecation replacement messages at a large-scale level.
- 66.7% and 77.8% of APIs are deprecated with replacement messages in Java and C# per project, on the median.
- Percentage of deprecated APIs with replacement messages does not improve over time.
- We provide the basis for creating a tool to support clients detecting missing deprecation messages

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