

Meshcore - Dev Cycle Intel

Aug. 9, 2026

Q? A software development cycle shows 44, 29 and 64 days between "releases" ... What is the trend out to the 2 year mark?

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Software release cycle of **44, 49, and 64 days**, the trend becomes near linear (R^2 is **\$0.92\$**).

At the **2-year mark (730 days)**, the projected release interval reaches **~121 days (approx. 4 months)**, resulting in **8 to 9 total releases** over that timeframe.

1. Linear Trend Model

Analyzing the updated sequence ($n = 1, 2, 3$):

$\text{Intervals: } [44, 49, 64] \text{ days}$

Using linear regression ($y = mn + c$):

- **Average Interval Growth Rate (m):** $+10$ days added per release cycle
- **Base Intercept (c):** 32.33 days
- **Regression Formula:** $\text{Interval}_n = 10n + 32.33$ days
- **Linear Fit (R^2):** **\$0.923\$** (very strong upward correlation)

Projected Timeline over 2 Years (730 Days):

Release #	Projected Cycle Length	Cumulative Days	Time Elapsed
Release 1	44 days (<i>actual: 44</i>)	44 days	~1.5 months

Release 2	49 days (<i>actual: 49</i>)	93 days	~3.0 months
Release 3	64 days (<i>actual: 64</i>)	157 days	~5.2 months
Release 4	~72 days	229 days	~7.5 months
Release 6	~92 days	404 days	~13.3 months
Release 8	~112 days	619 days	~20.3 months
Release 9	~122 days	741 days	~24.3 months (2-Year Mark)
Release 10	~132 days	873 days	~28.7 months

By **Release 9** (occurring right around the 24-month threshold), individual release cycles will have stretched to **~121–122 days**.

2. Comparison Across Models

Model	Projected Interval at 2 Years	Total Releases (2 Years)	Key Takeaway
Linear Trend (<i>Strong Fit</i>)	~121 days (~4.0 mos)	8–9 releases	$R^2 = 0.923$ indicates a very steady slowing of release speed by ~10 days/cycle.

Static Average Baseline	~52 days (~1.7 mos)	14 releases	Ignores the clear upward trajectory ($\bar{x} = 52.33$ days).
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Summary

Unlike the previous sequence containing a drop (29 days), the steady increase from **44** $\rightarrow$ **49** $\rightarrow$ **64** creates a very predictable pattern: each new release takes roughly **10 days longer** than the last.