Deprecate Atomic Aggregate?

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Why Atomic Aggregate?

• Leaking + Aggregation $\rightarrow$ Looping or BAD data
• Started in 1987 – Policy Filters (? A fix/a curse)
• Atomic Aggregate
  – Aggregate (routes AS Paths) $\rightarrow$ Prefix + AS_SET
  – Then: If an aggregate excludes at least some of the AS numbers present in the AS_PATH of the routes that are aggregated as a result of dropping the AS_SET, the aggregated route, when advertised to the peer, SHOULD include the ATOMIC_AGGREGATE attribute.
• Discussions suggest situation still exists,
Leaking + Aggregation

More robust in partial deployment
(AS7, AS8, AS9 not upgraded)

Customer cone

AS4

Customer cone

AS5

RLP(5) = 1

AS1

RLP(1) = 1

AS2

Leak

AS7

Leak

AS8

Leak

AS9

Customer cone

AS15

Major ISP

Small ISP / Customer

Customer cone

Customer cone

Customer cone

Customer cone

Customer cone

Customer cone

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