



agrirouter

API Developer Tutorial

Concepts of communication

presented by

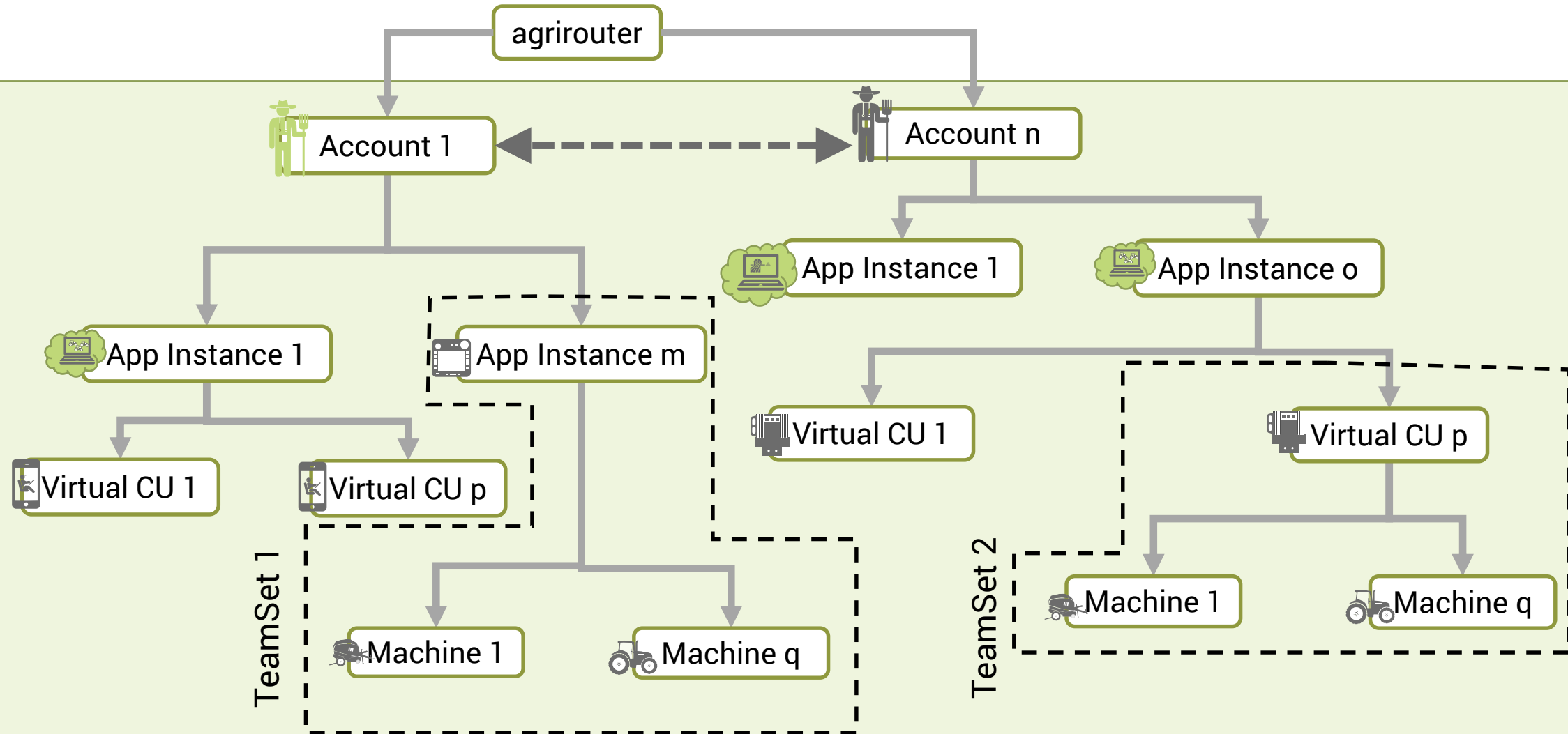
dev4
AGRICULTURE

What is this video about?

- Decisions before onboarding
- Elements of an Endpoint
- General Workflow of communication
- Building, sending, receiving & analyzing commands
- Wordings

agrirouter – Hierarchy

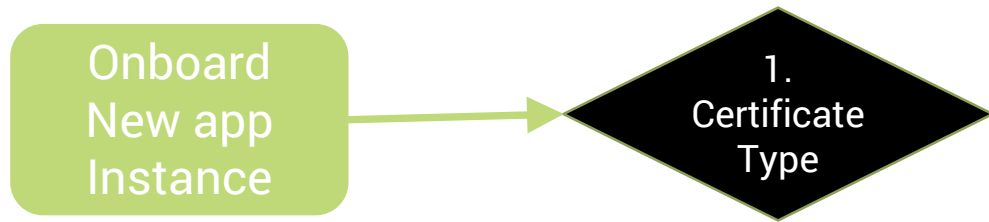
Have Endpoints



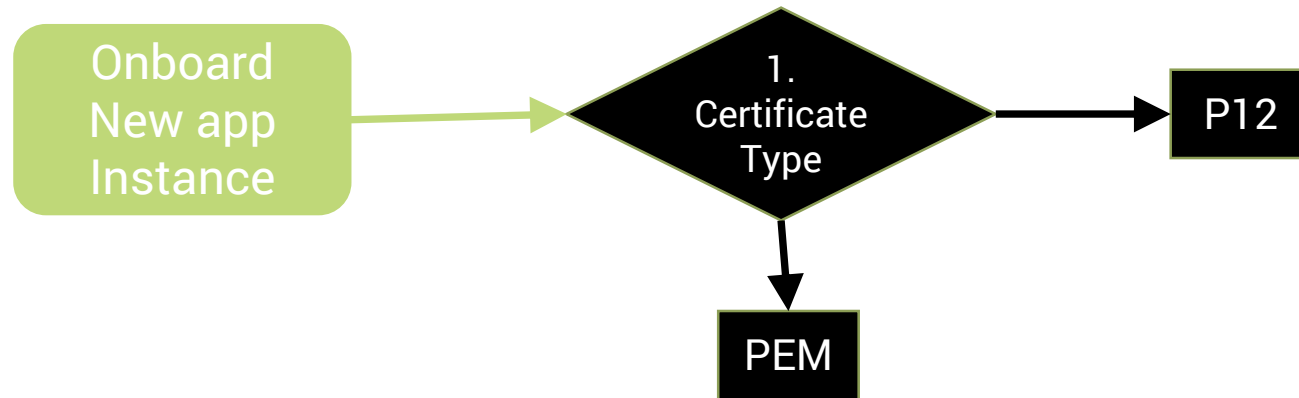
Decisions on Protocols and Formats

Onboard
New app
Instance

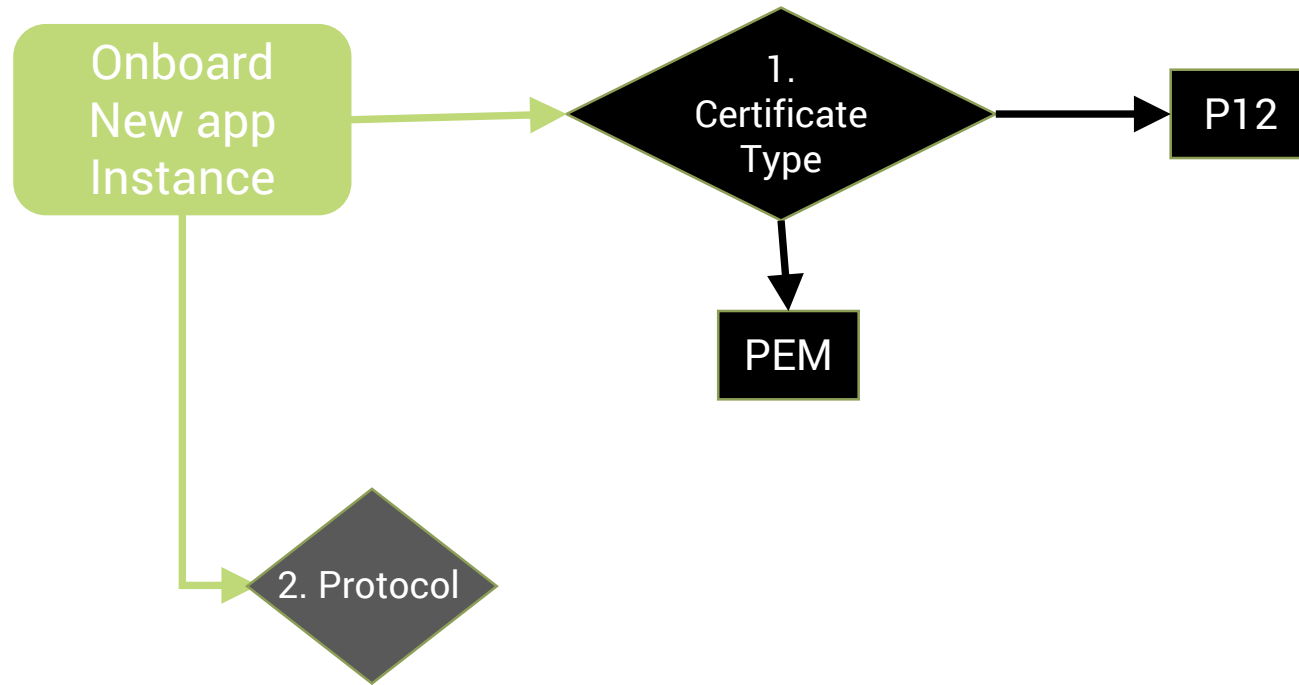
Decisions on Protocols and Formats



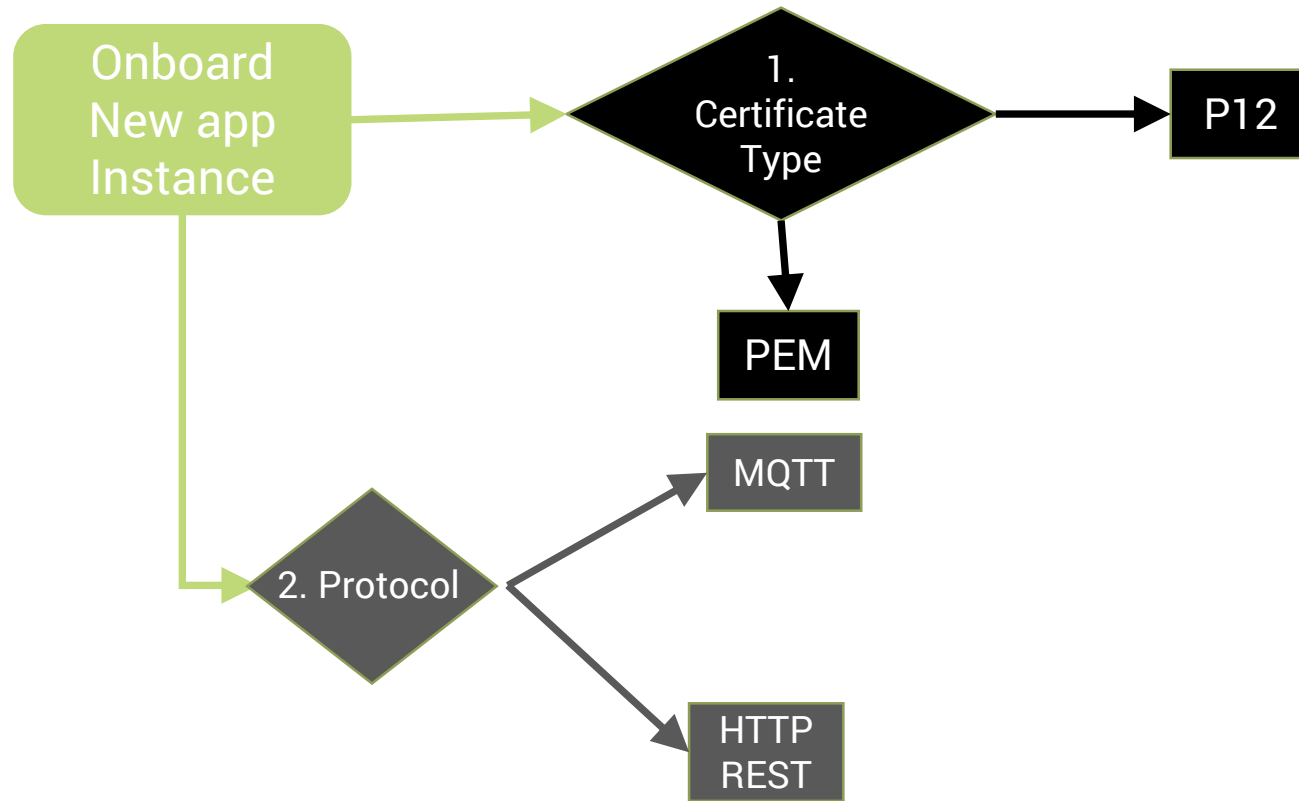
Decisions on Protocols and Formats



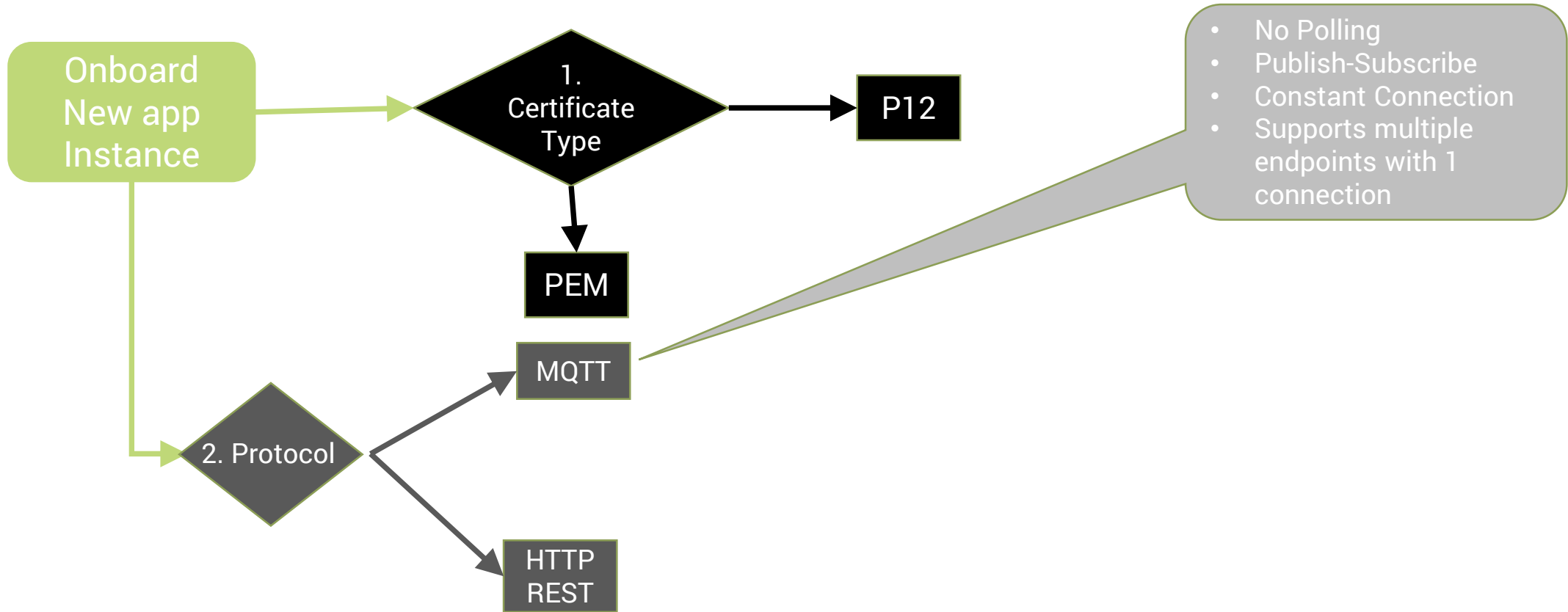
Decisions on Protocols and Formats



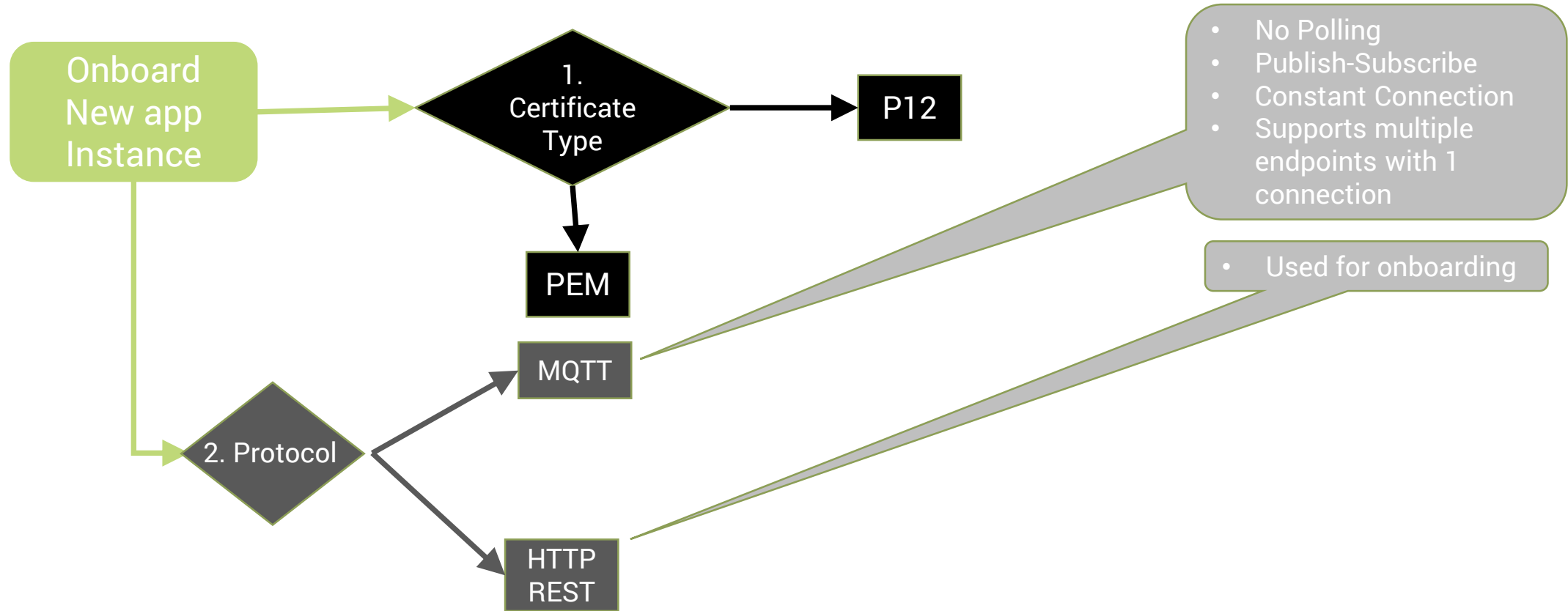
Decisions on Protocols and Formats



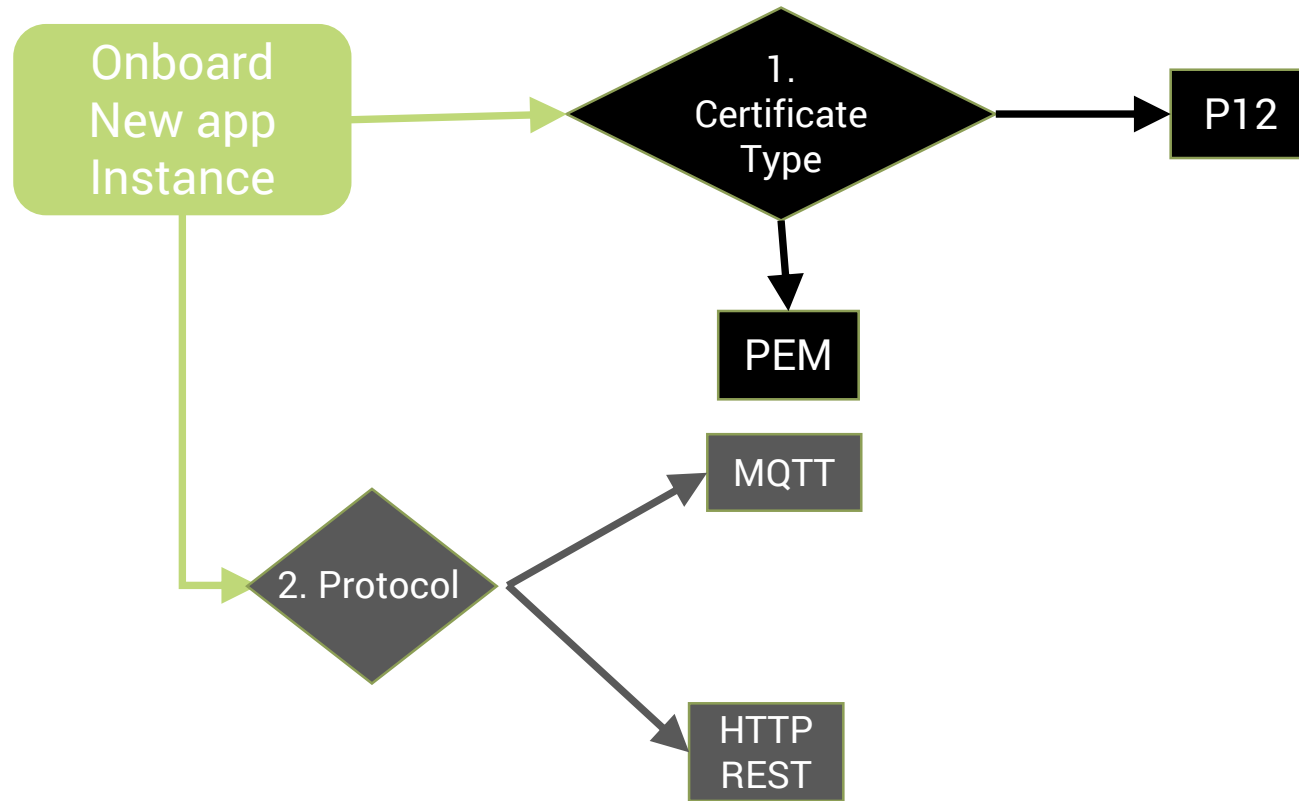
Decisions on Protocols and Formats



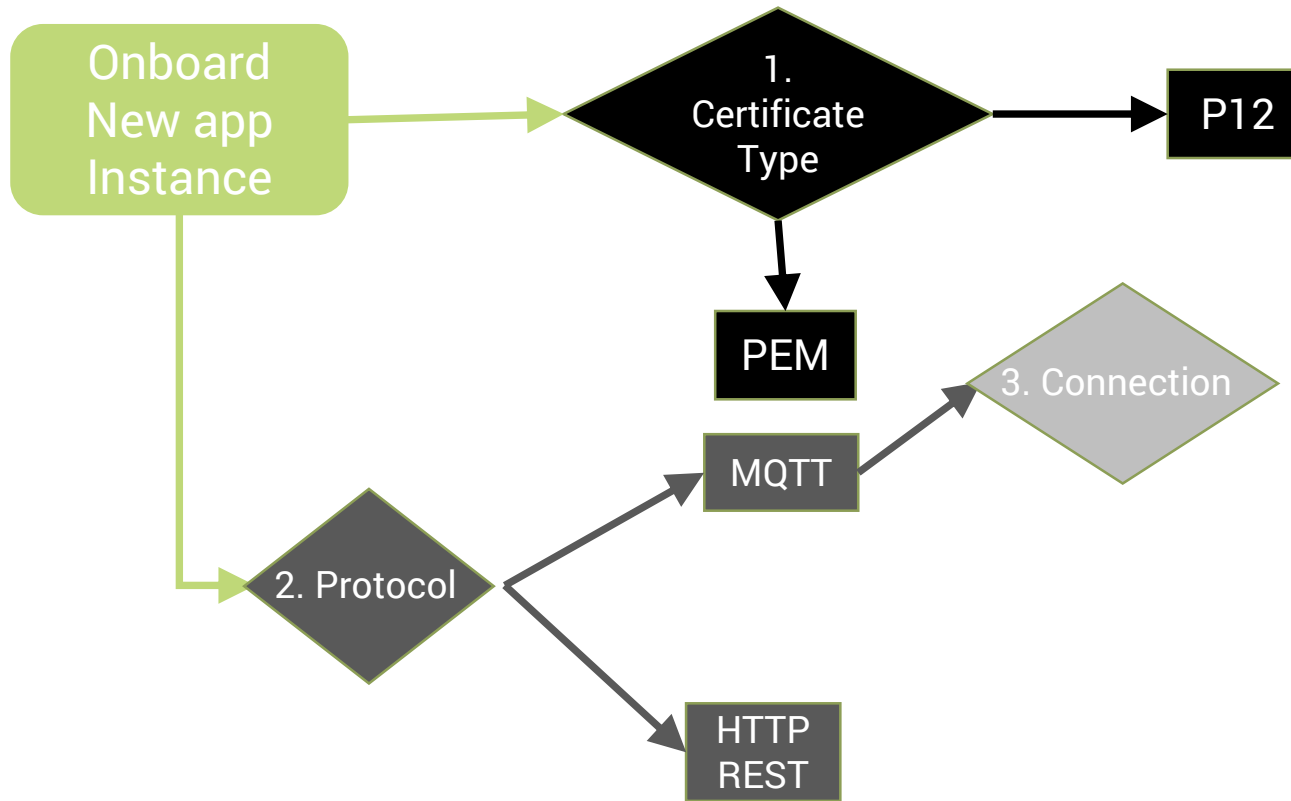
Decisions on Protocols and Formats



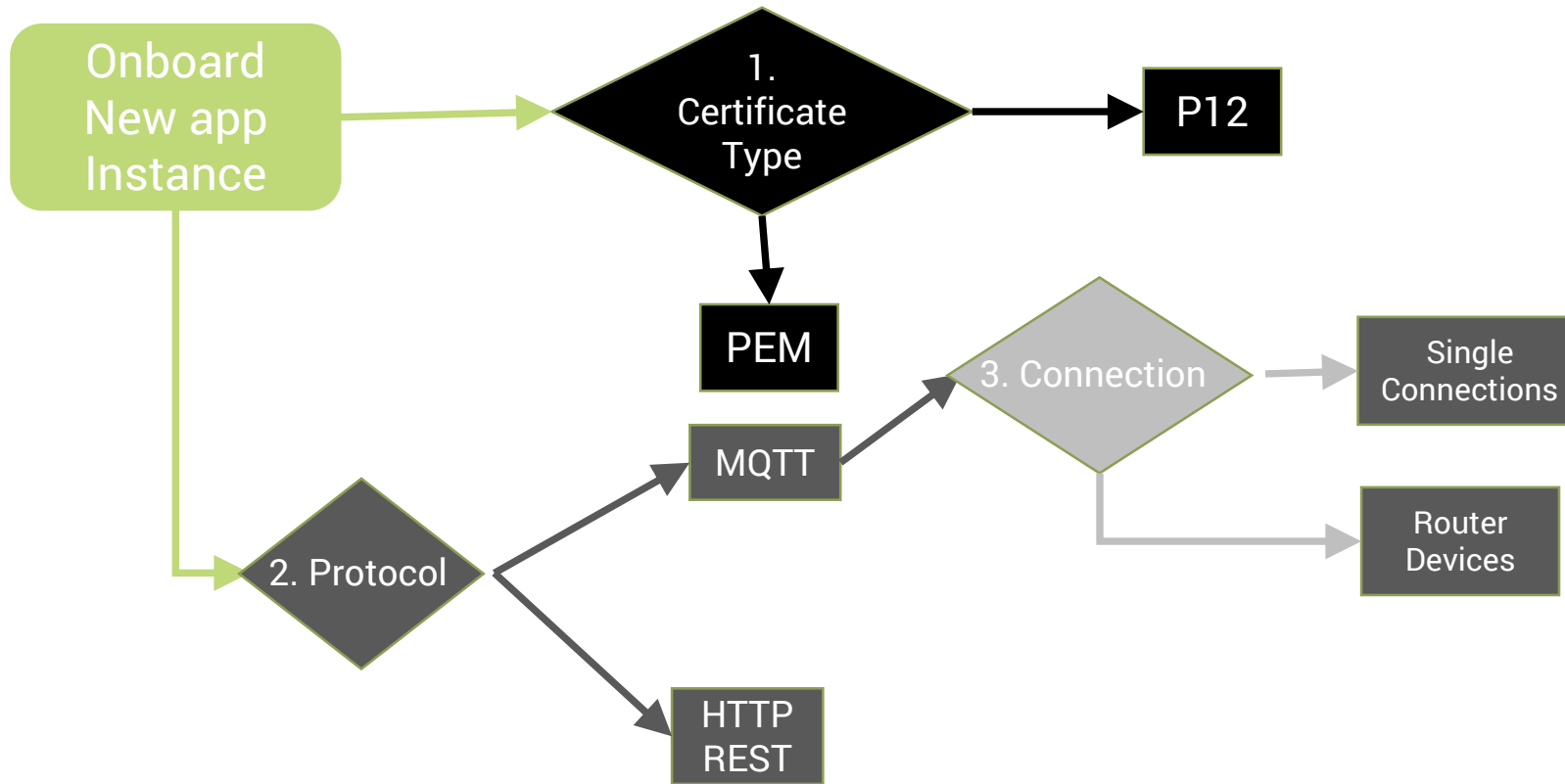
Decisions on Protocols and Formats



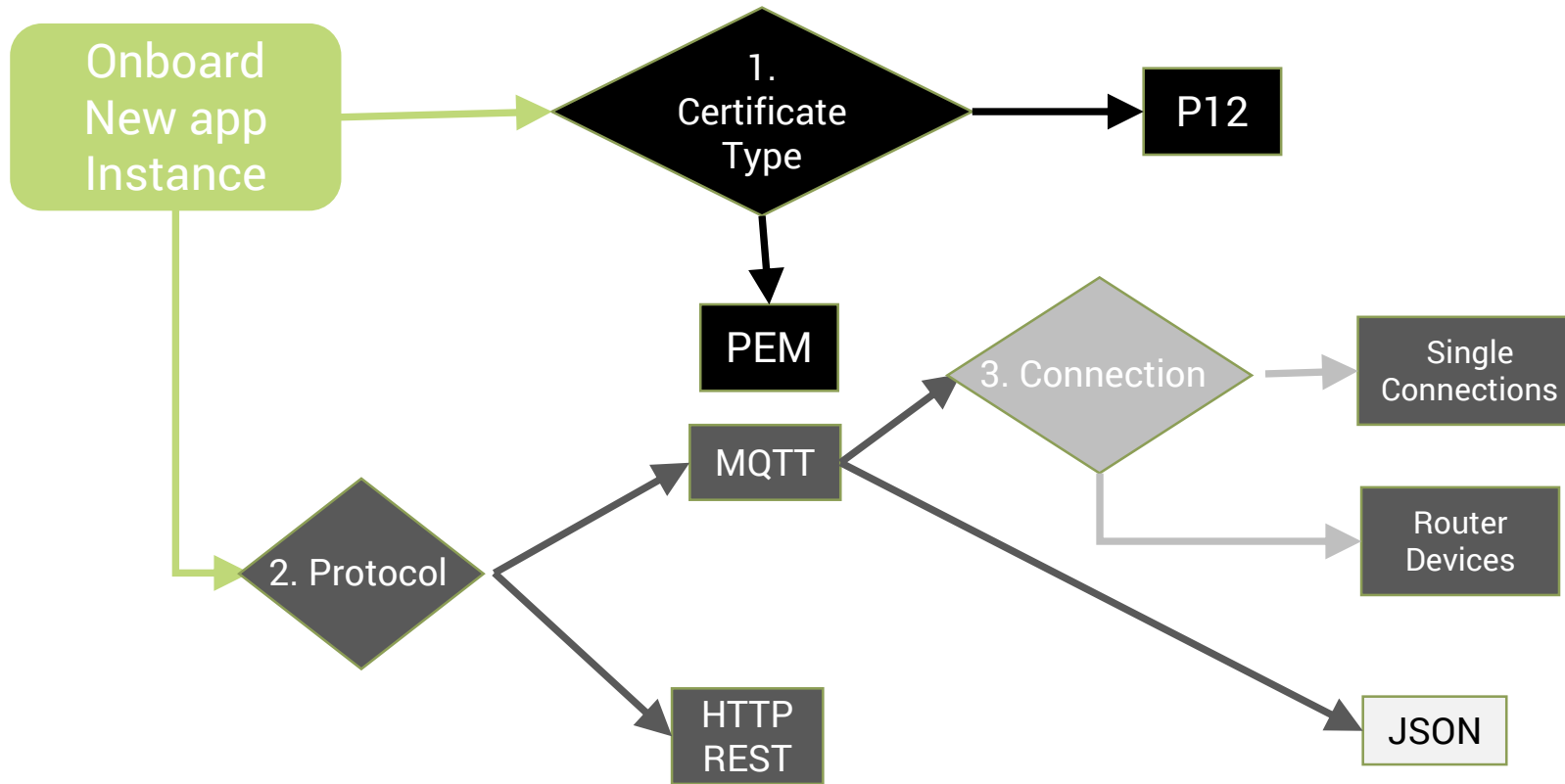
Decisions on Protocols and Formats



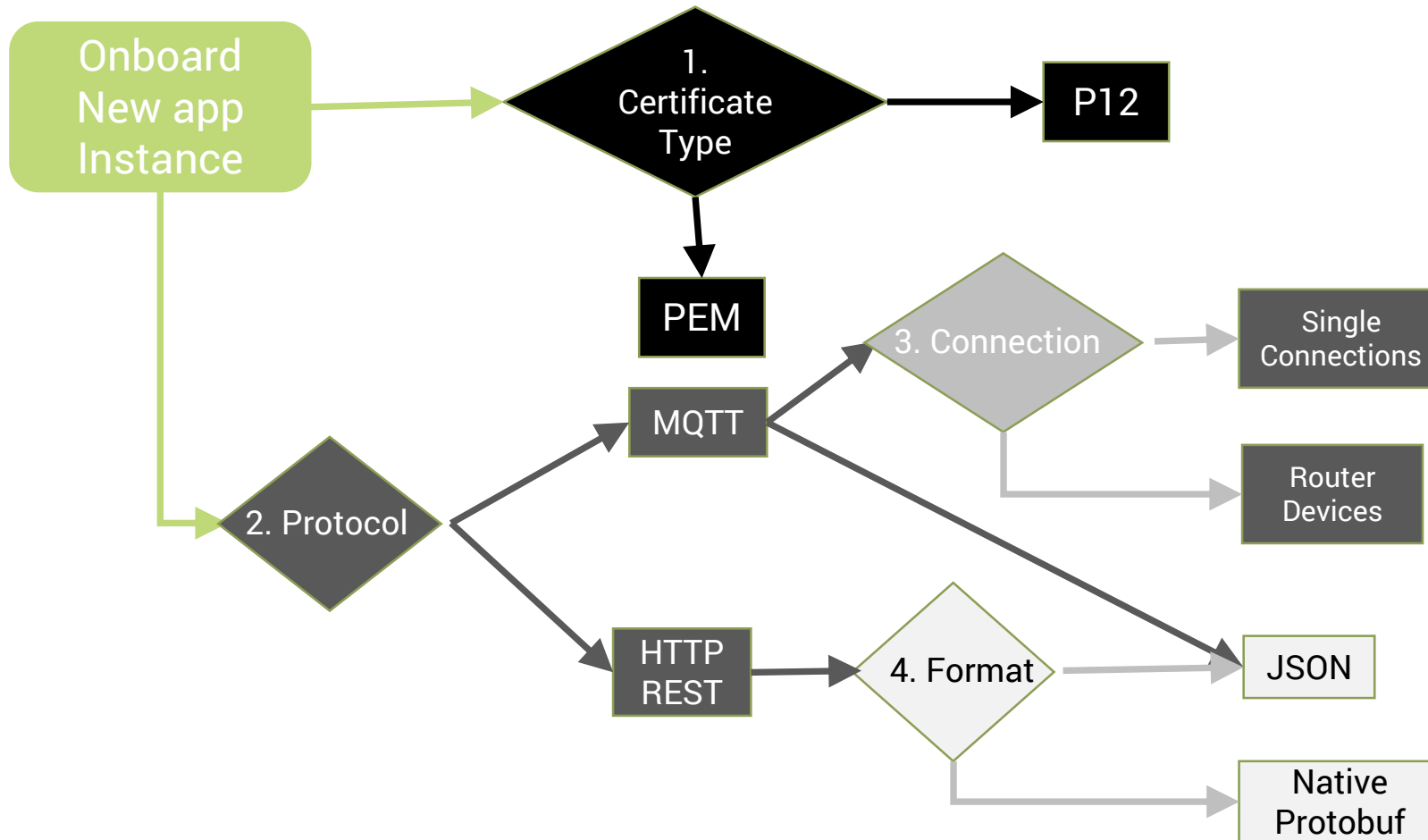
Decisions on Protocols and Formats



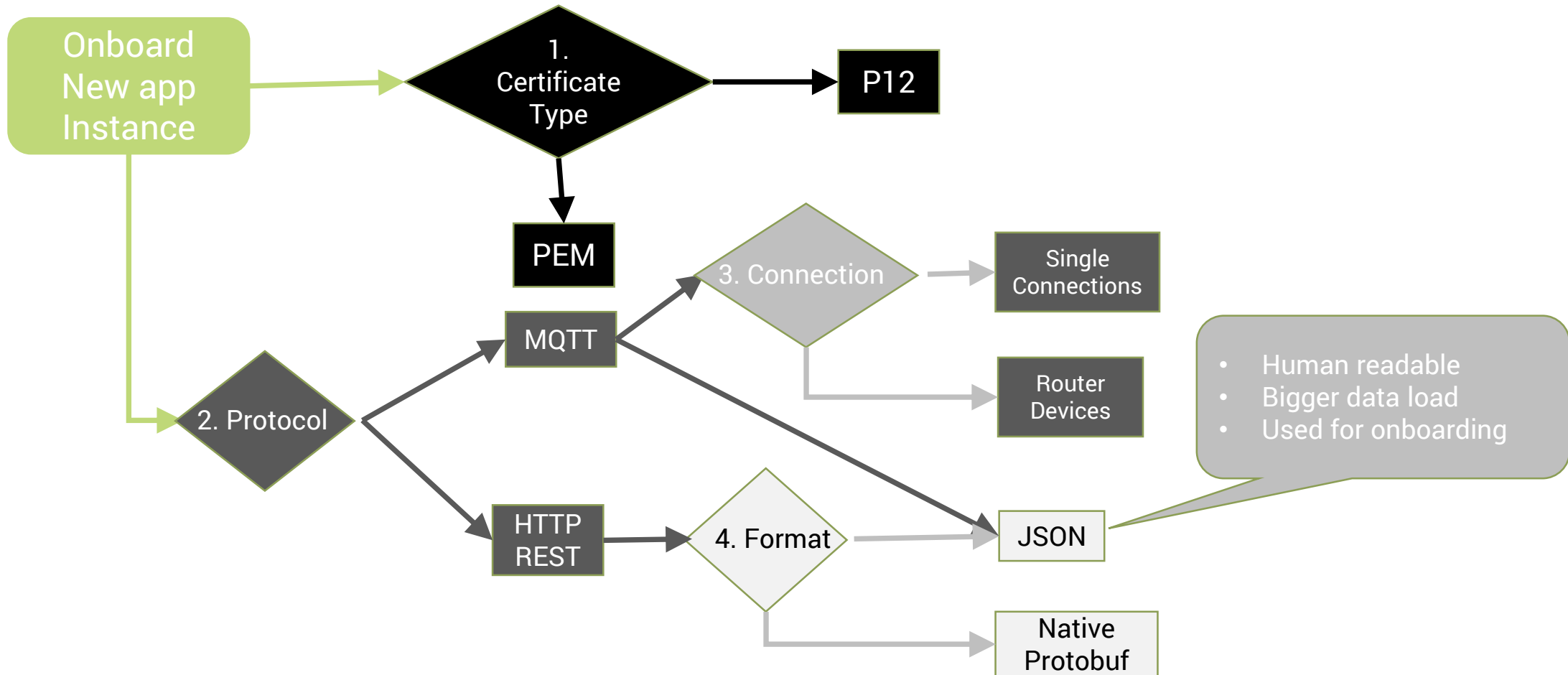
Decisions on Protocols and Formats



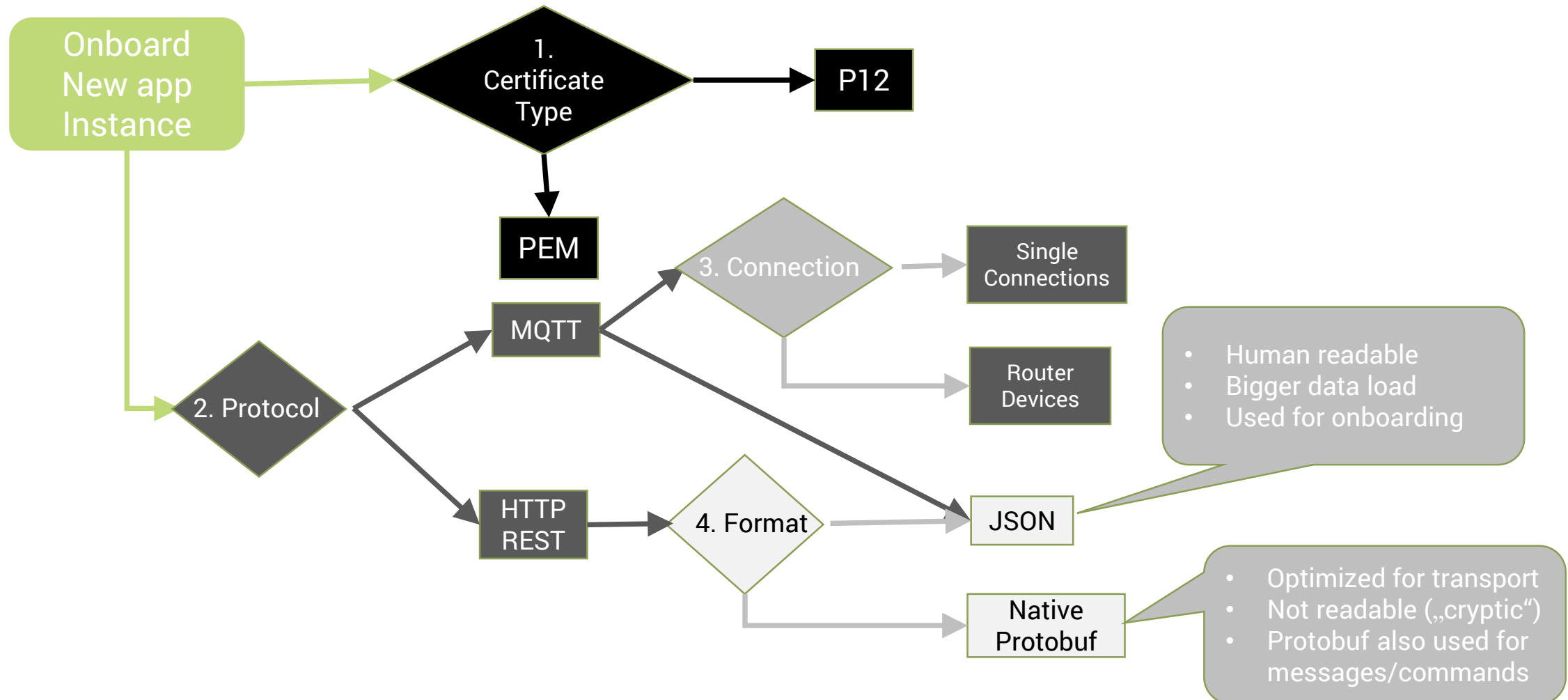
Decisions on Protocols and Formats



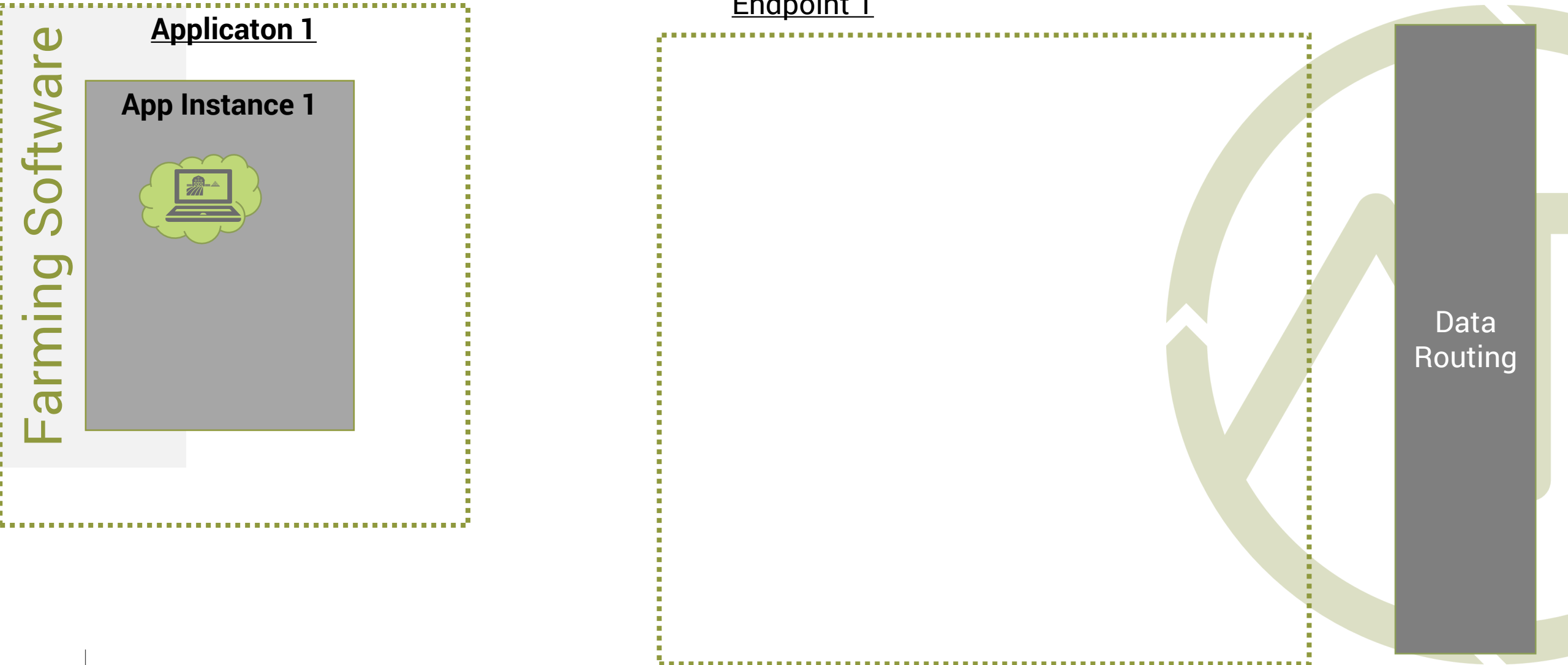
Decisions on Protocols and Formats



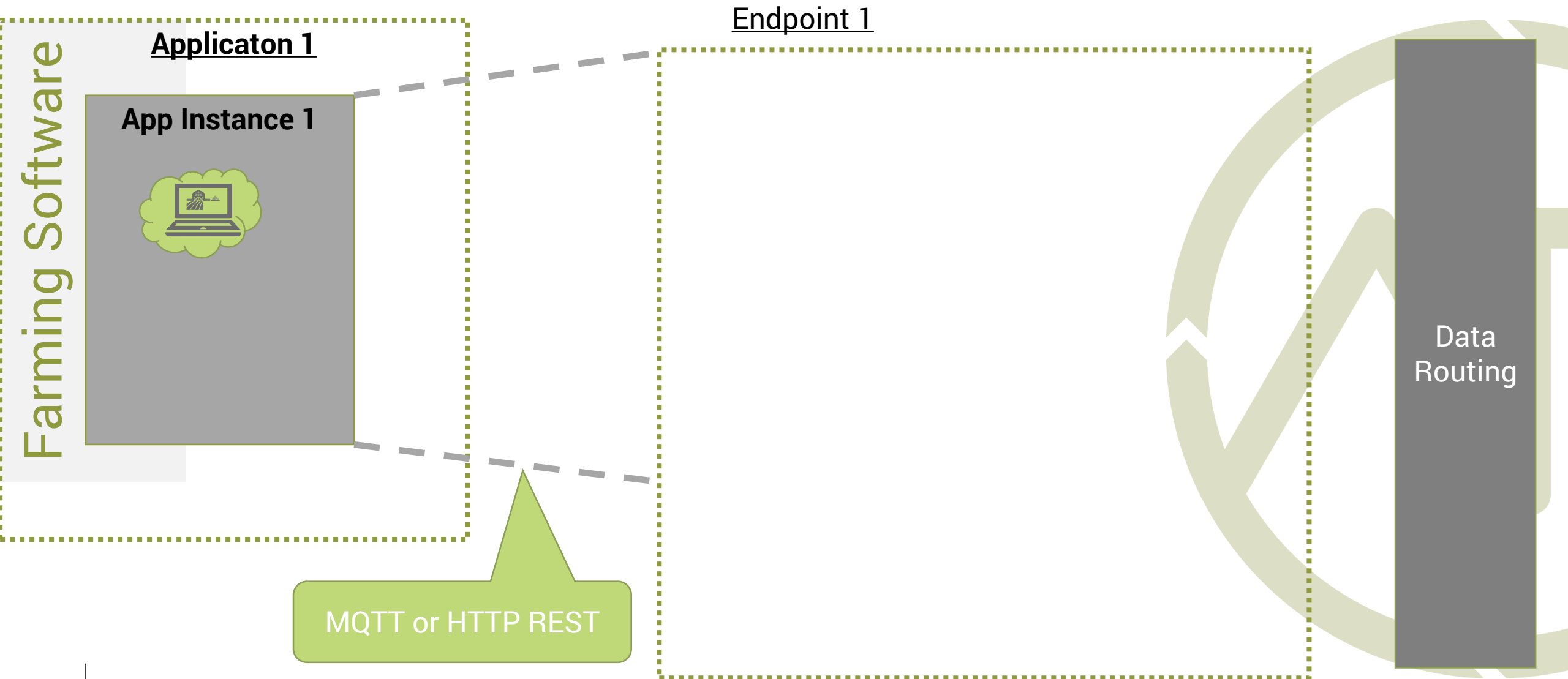
Decisions on Protocols and Formats



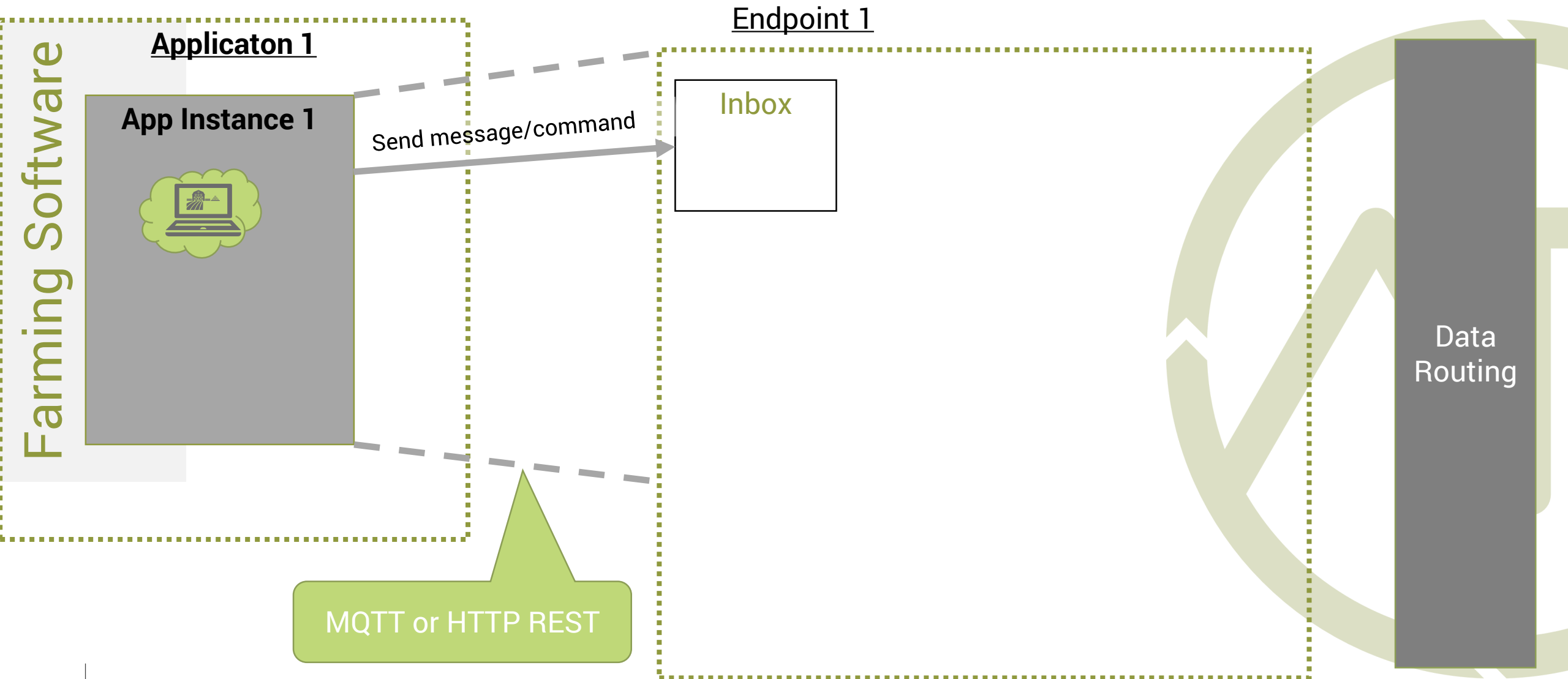
Communication of Endpoint and App Instance



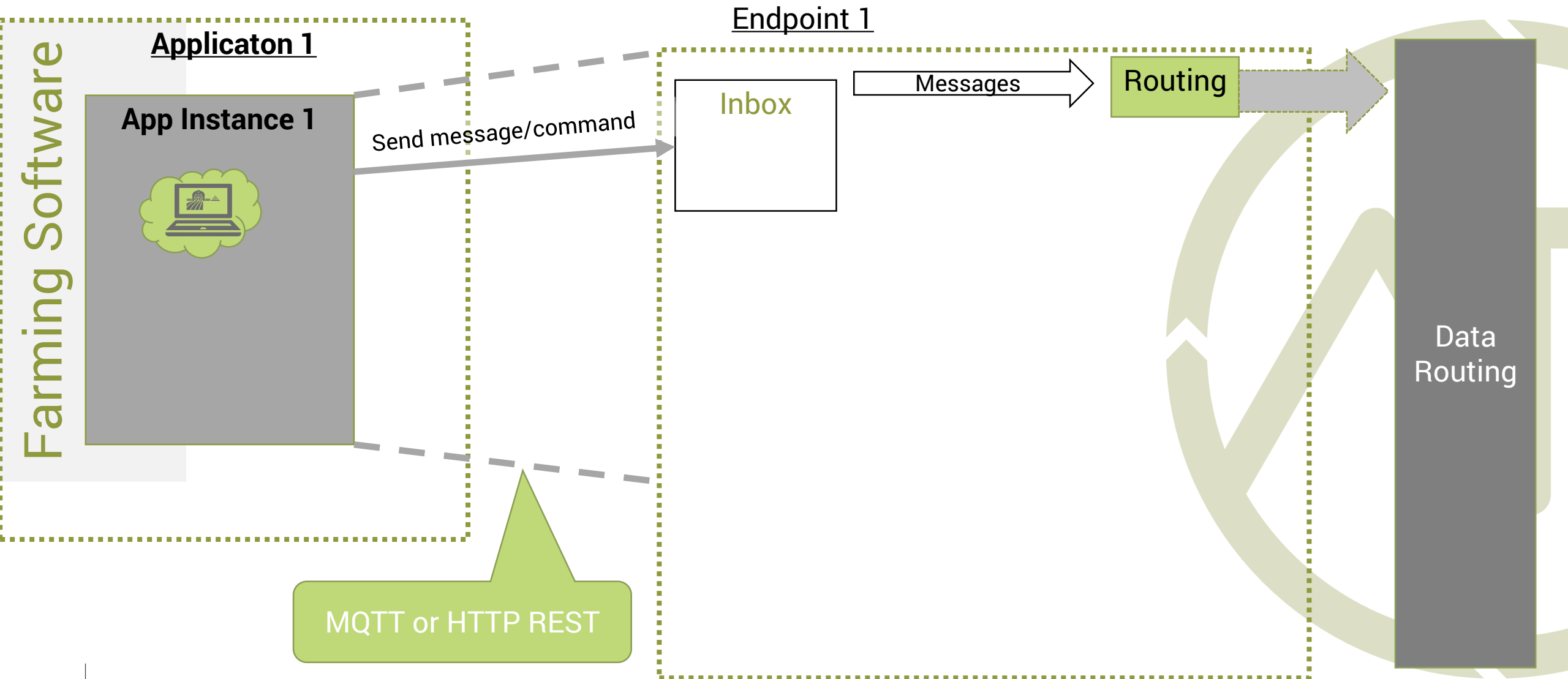
Communication of Endpoint and App Instance



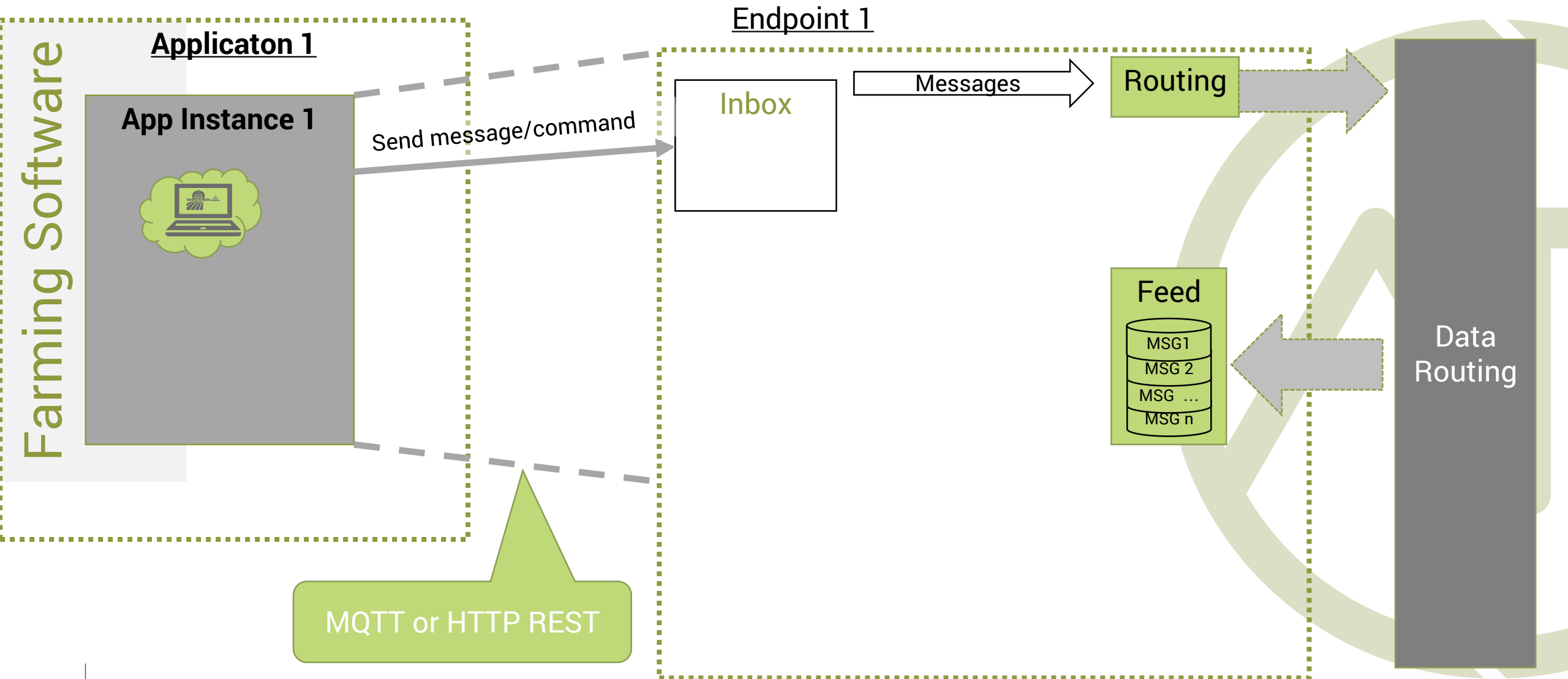
Communication of Endpoint and App Instance



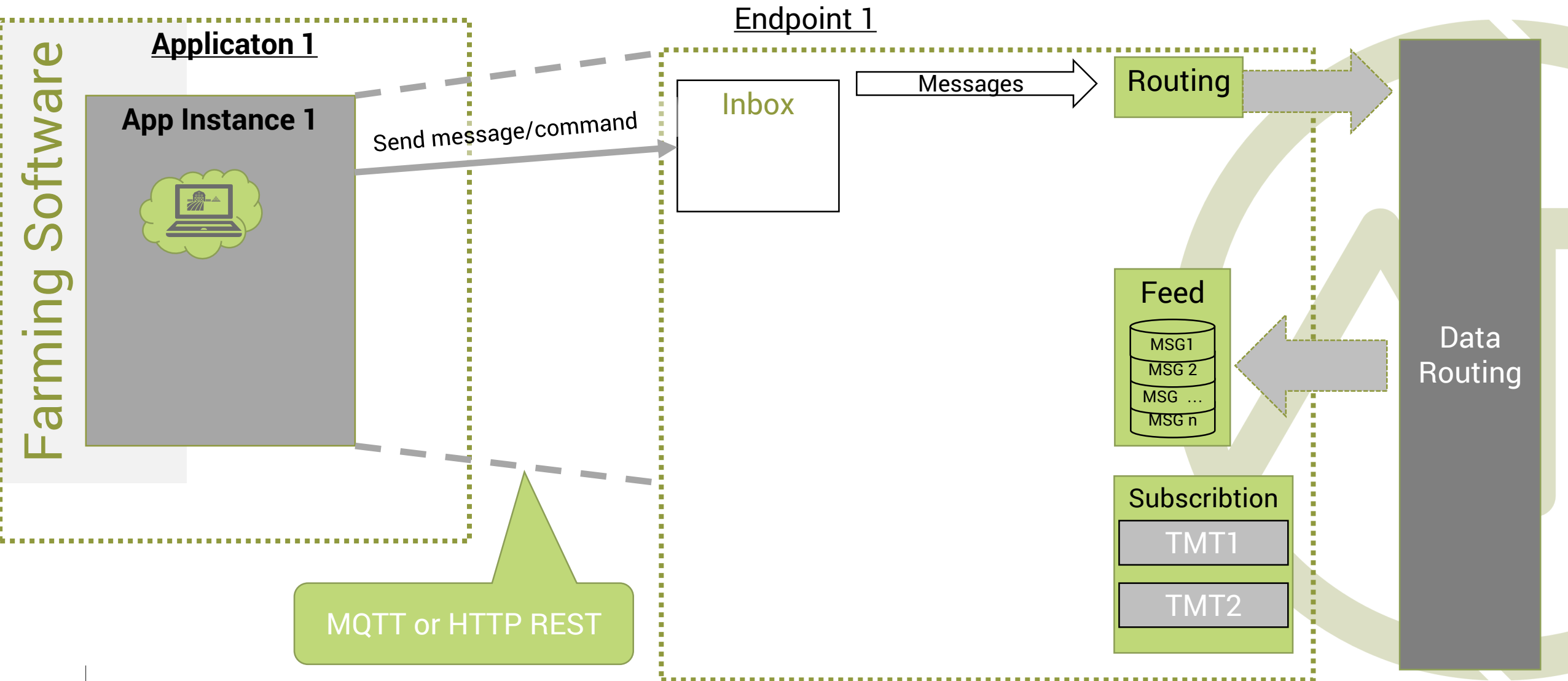
Communication of Endpoint and App Instance



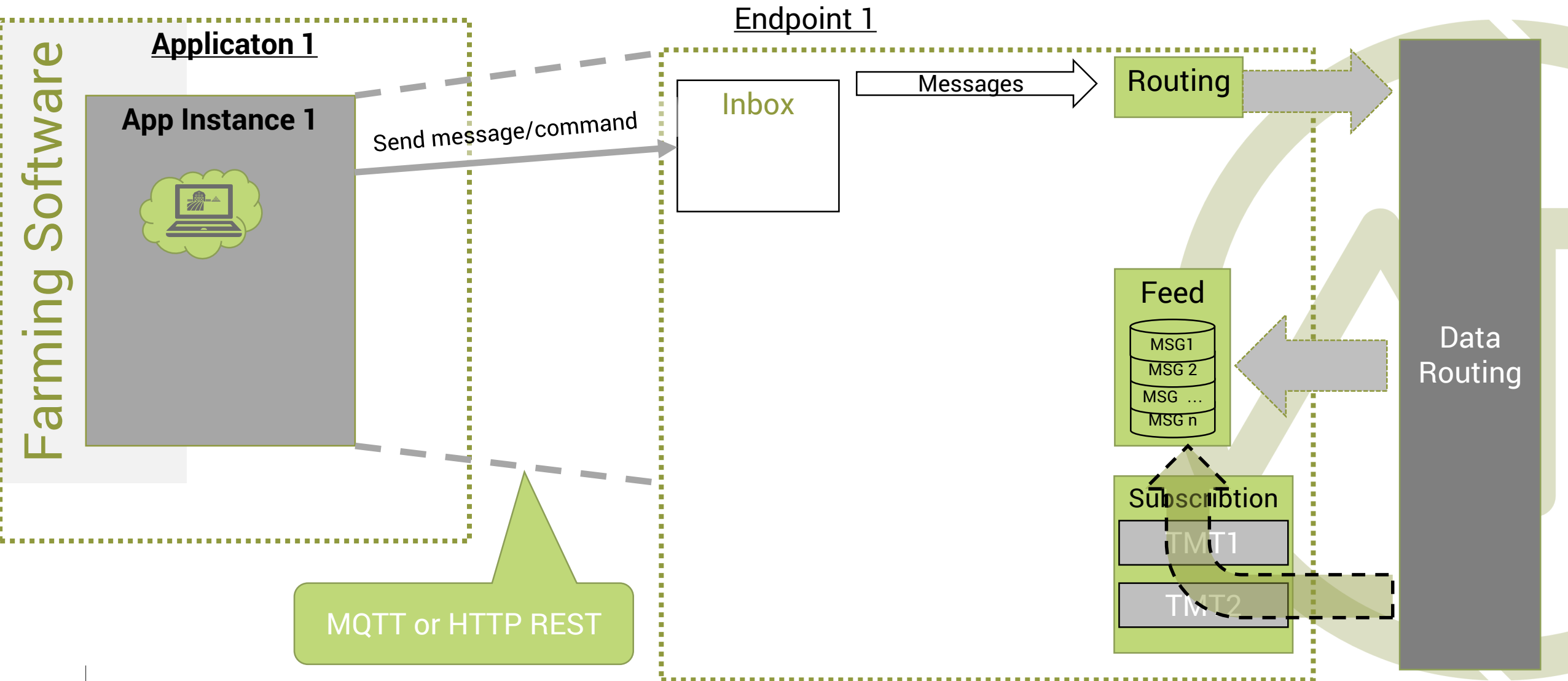
Communication of Endpoint and App Instance



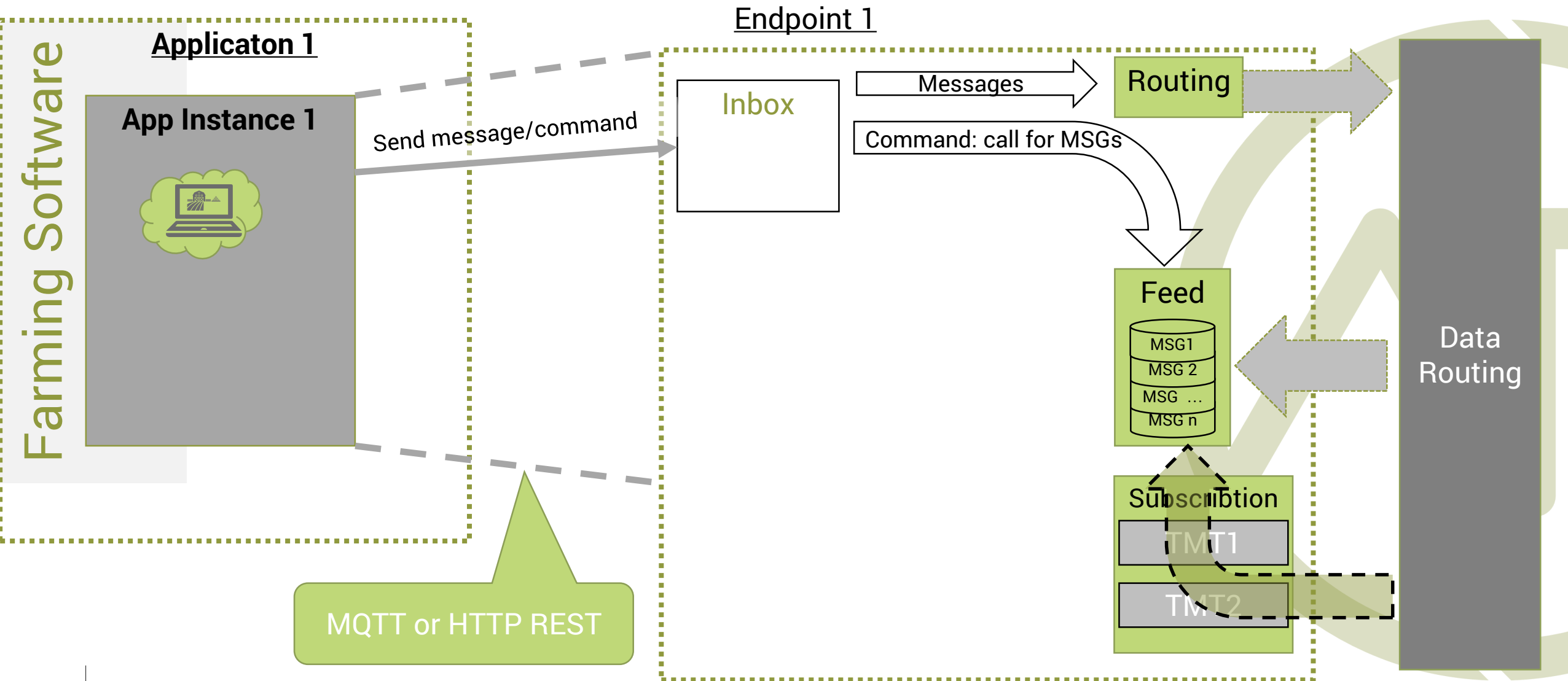
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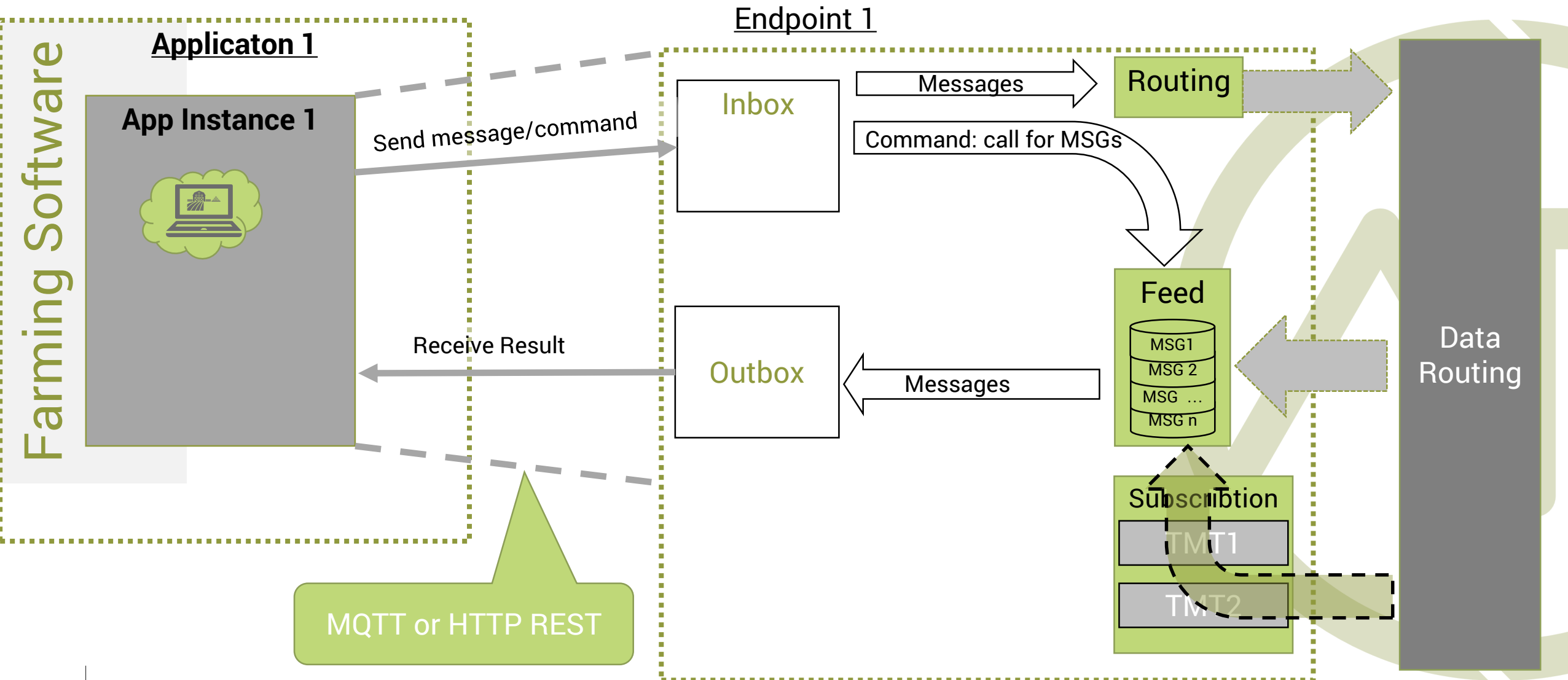
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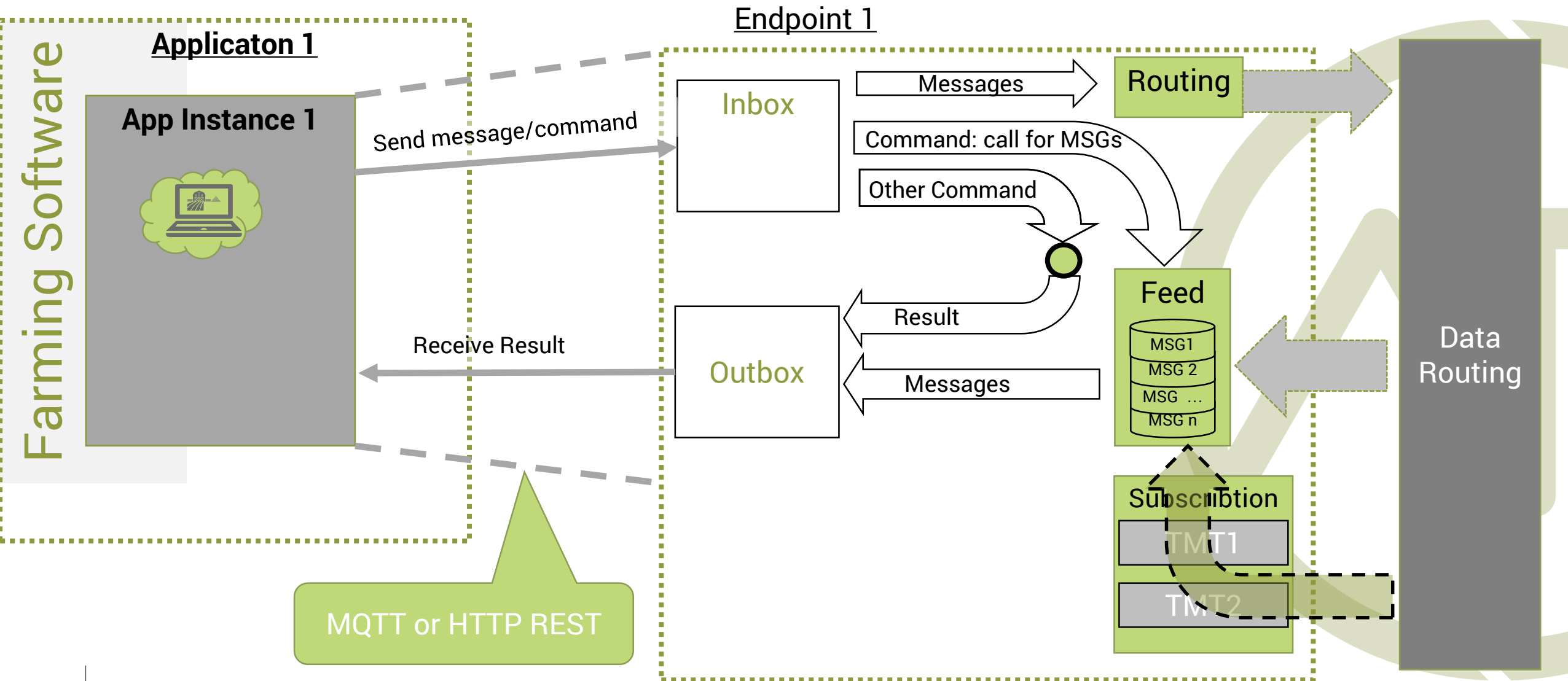
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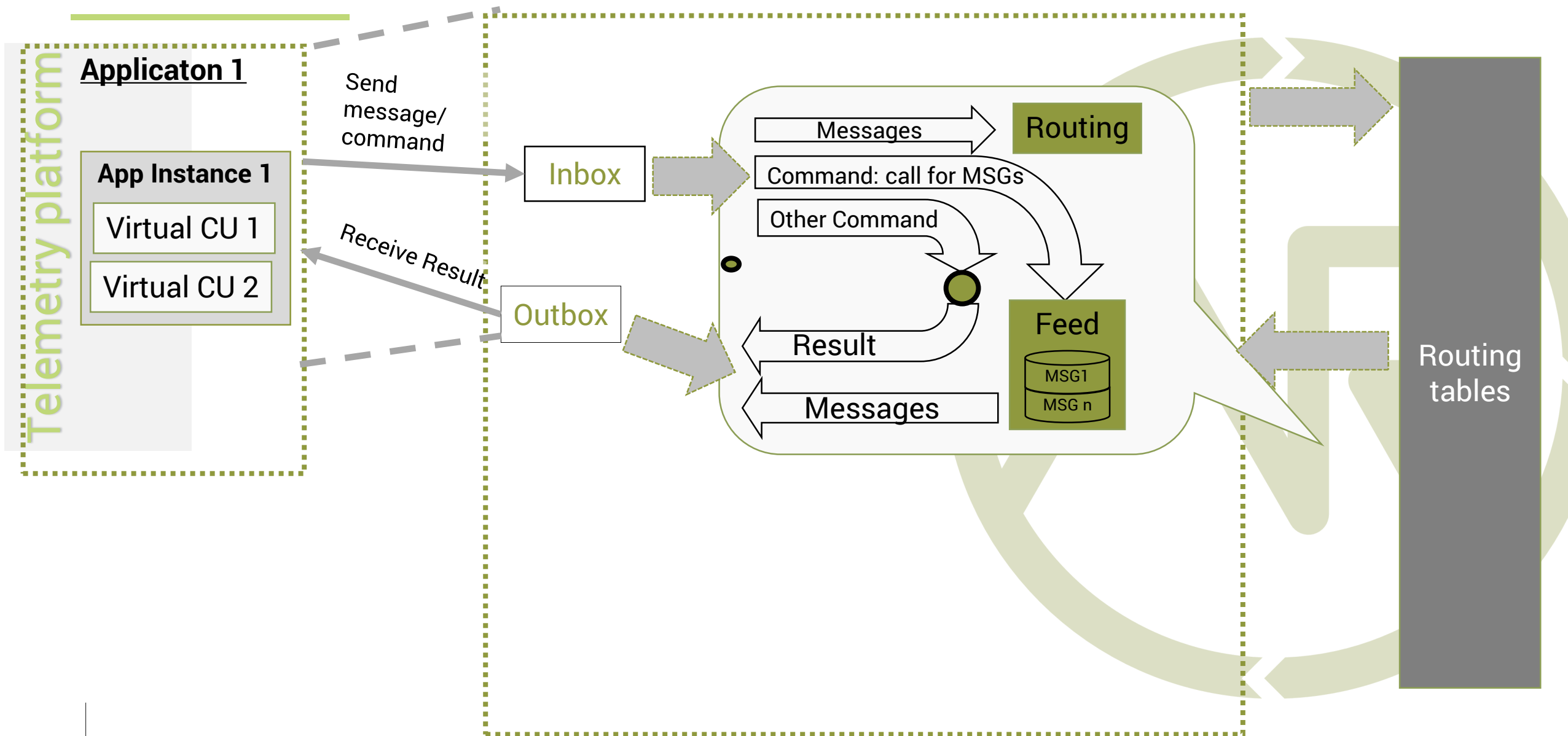
Communication of Endpoint and App Instance



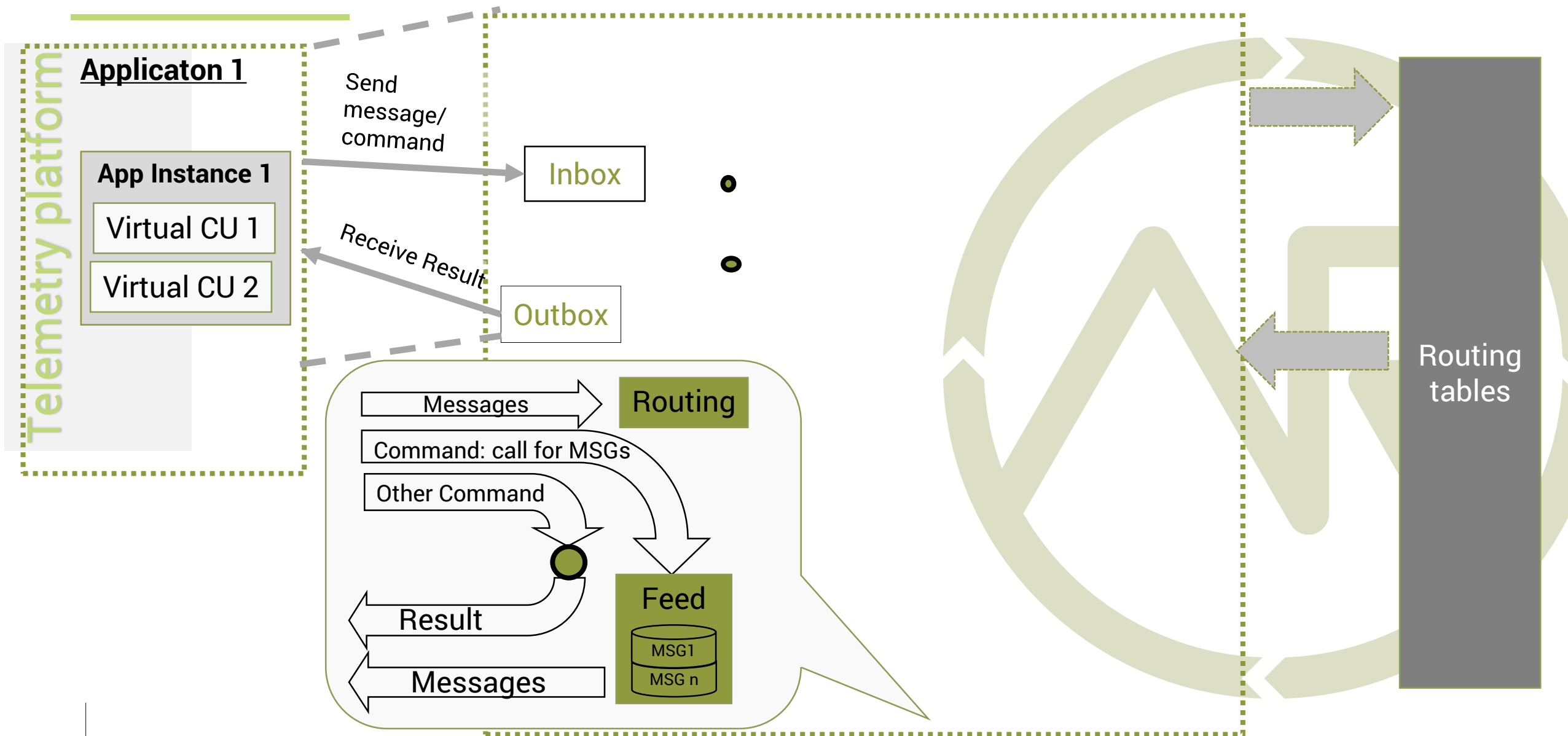
Communication of Endpoint and App Instance



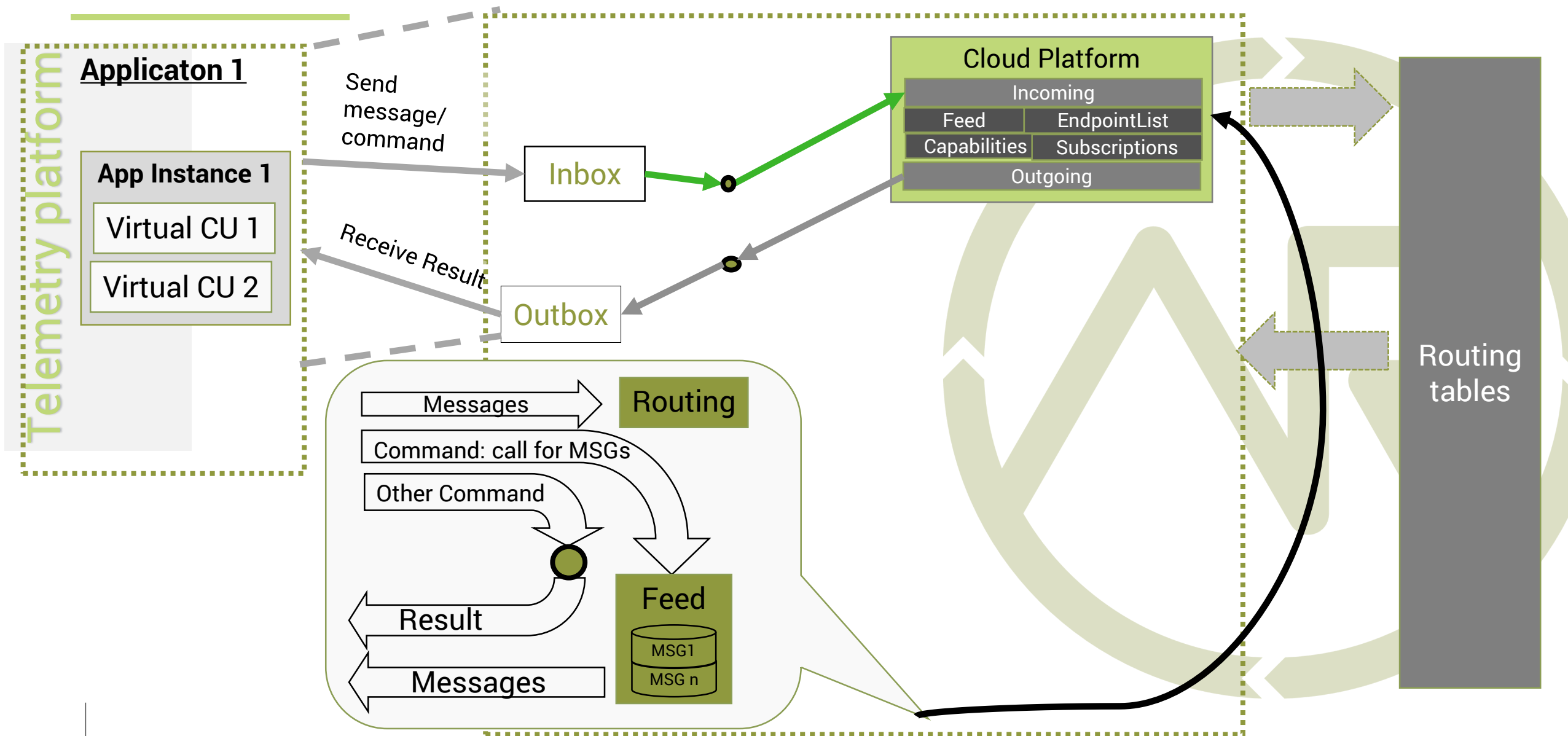
Endpoint of a Telemetry Platform



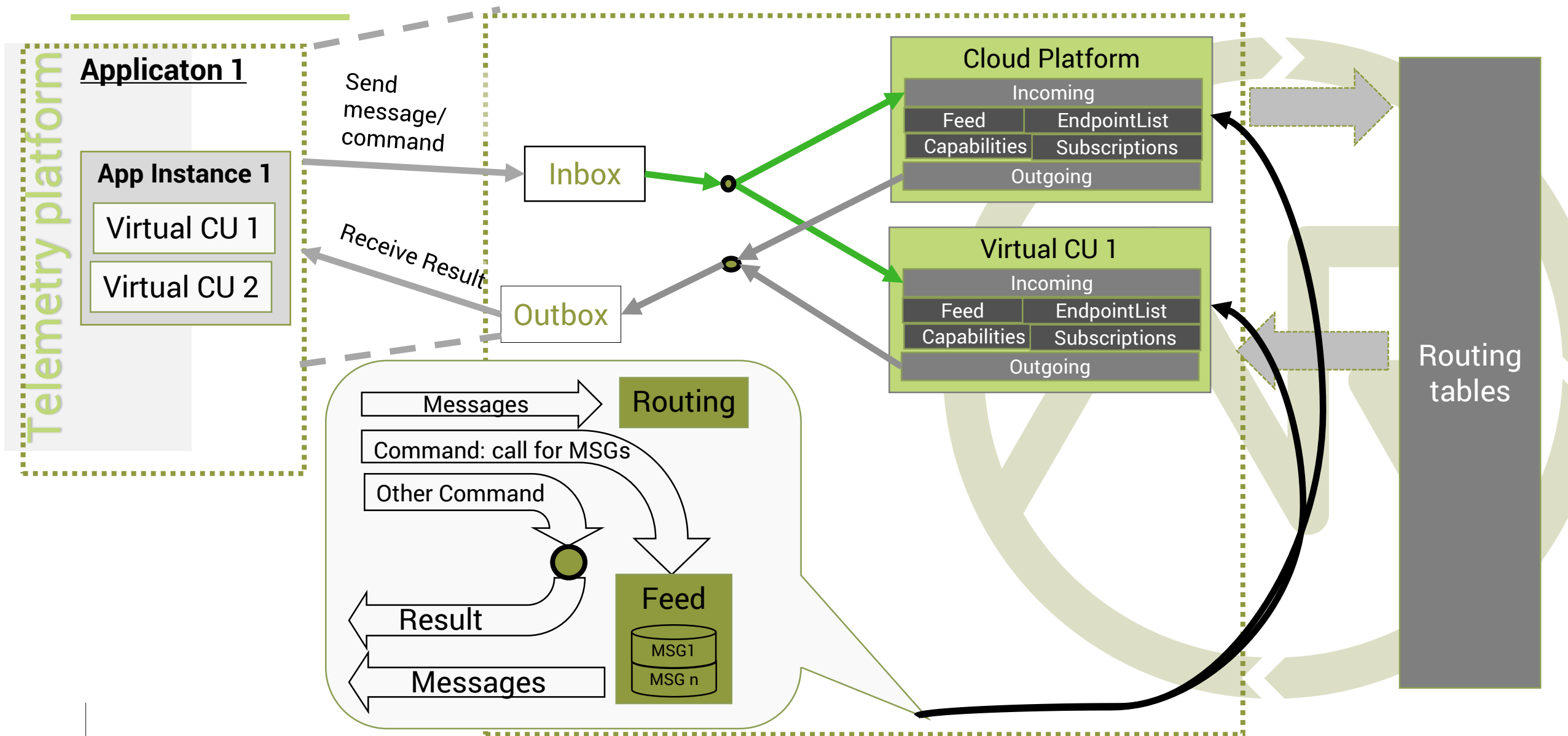
Endpoint of a Telemetry Platform



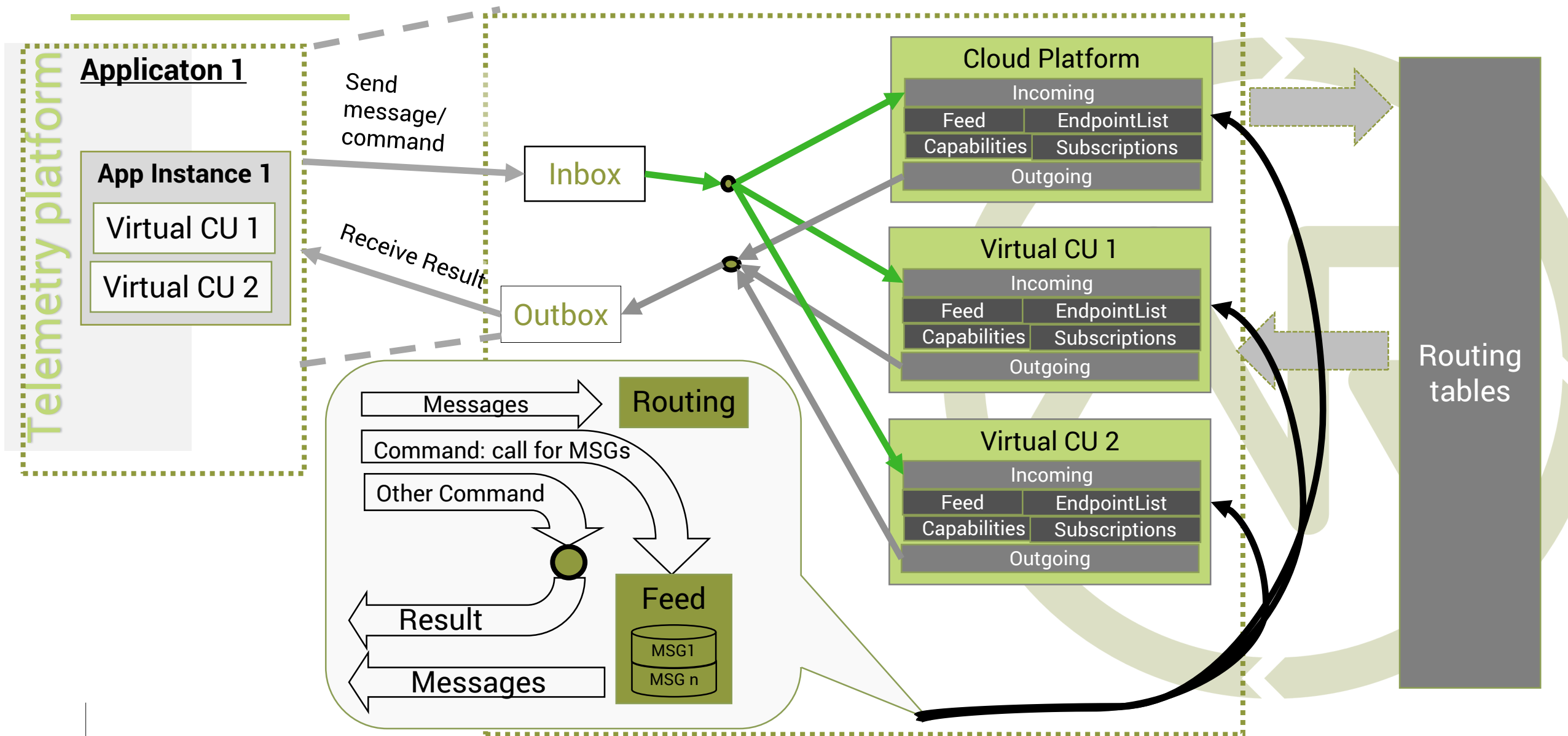
Endpoint of a Telemetry Platform



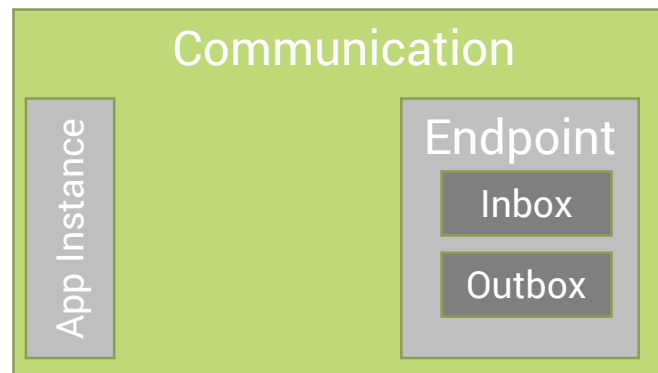
Endpoint of a Telemetry Platform



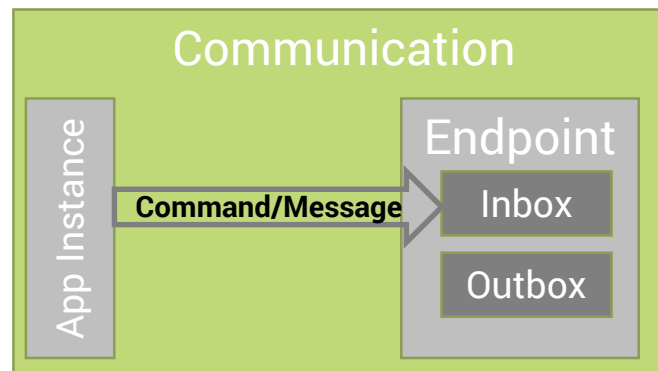
Endpoint of a Telemetry Platform



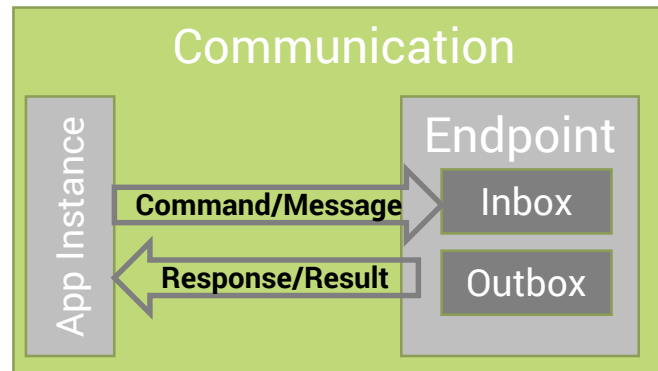
General workflow of communication



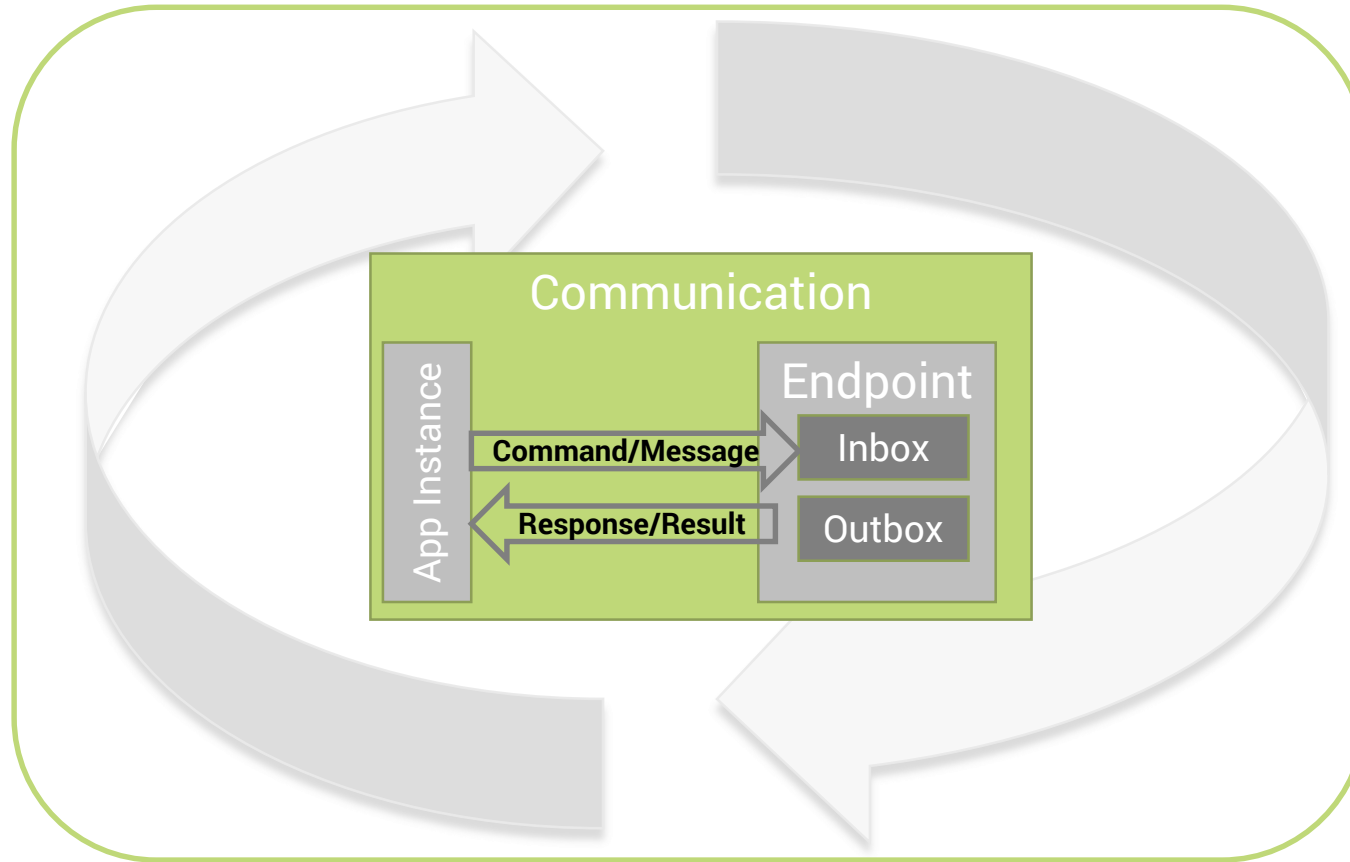
General workflow of communication



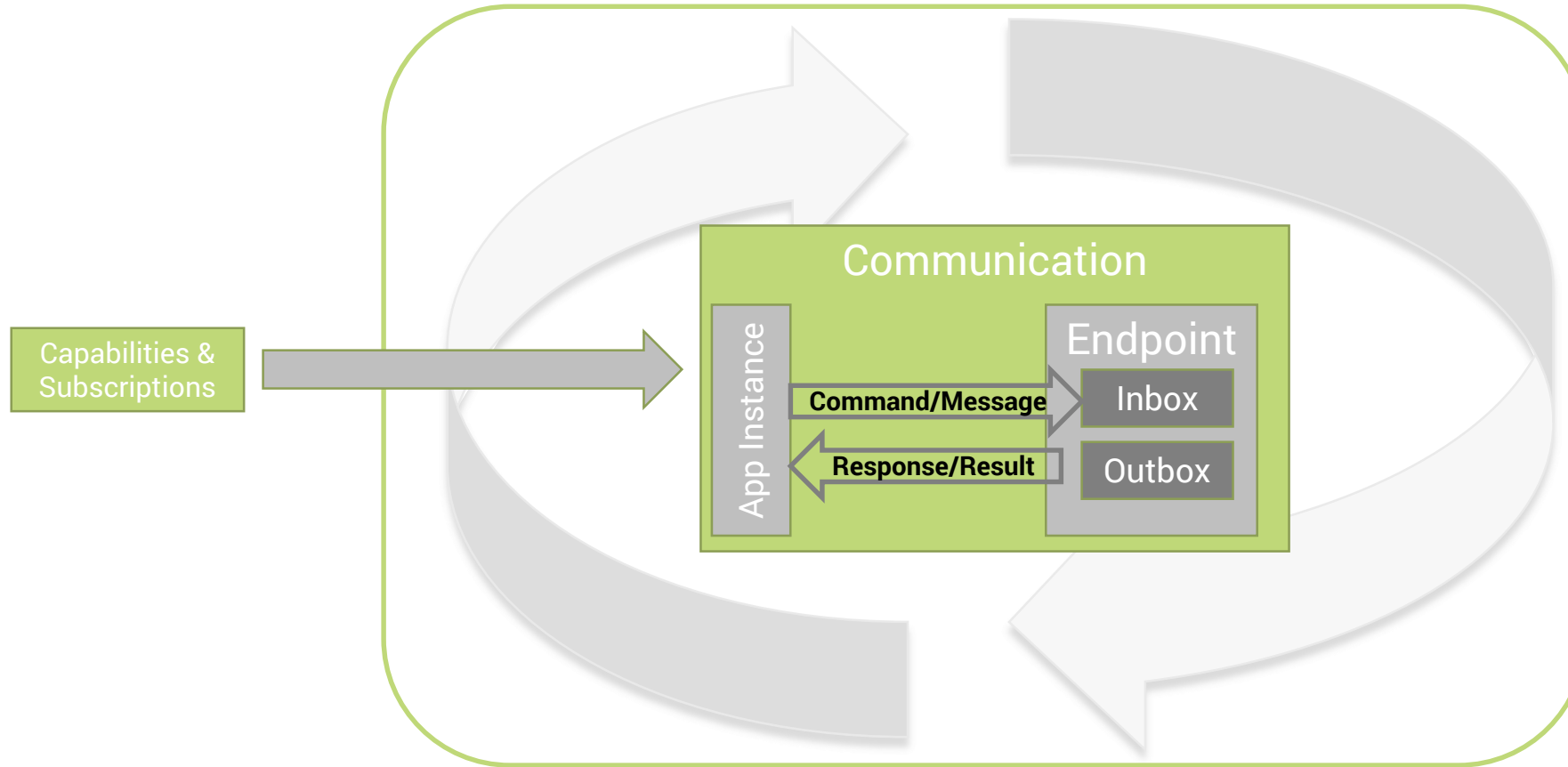
General workflow of communication



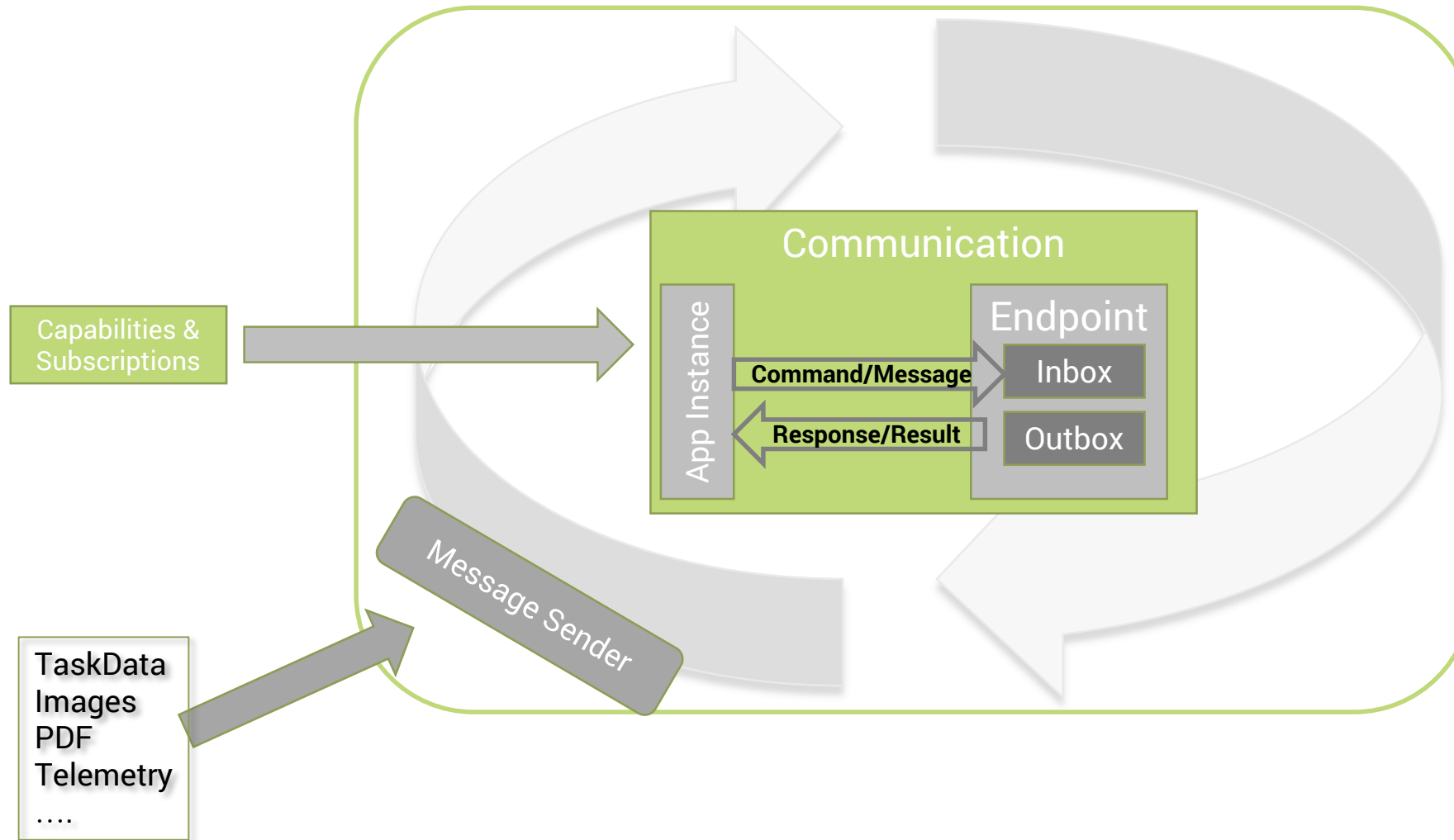
General workflow of communication



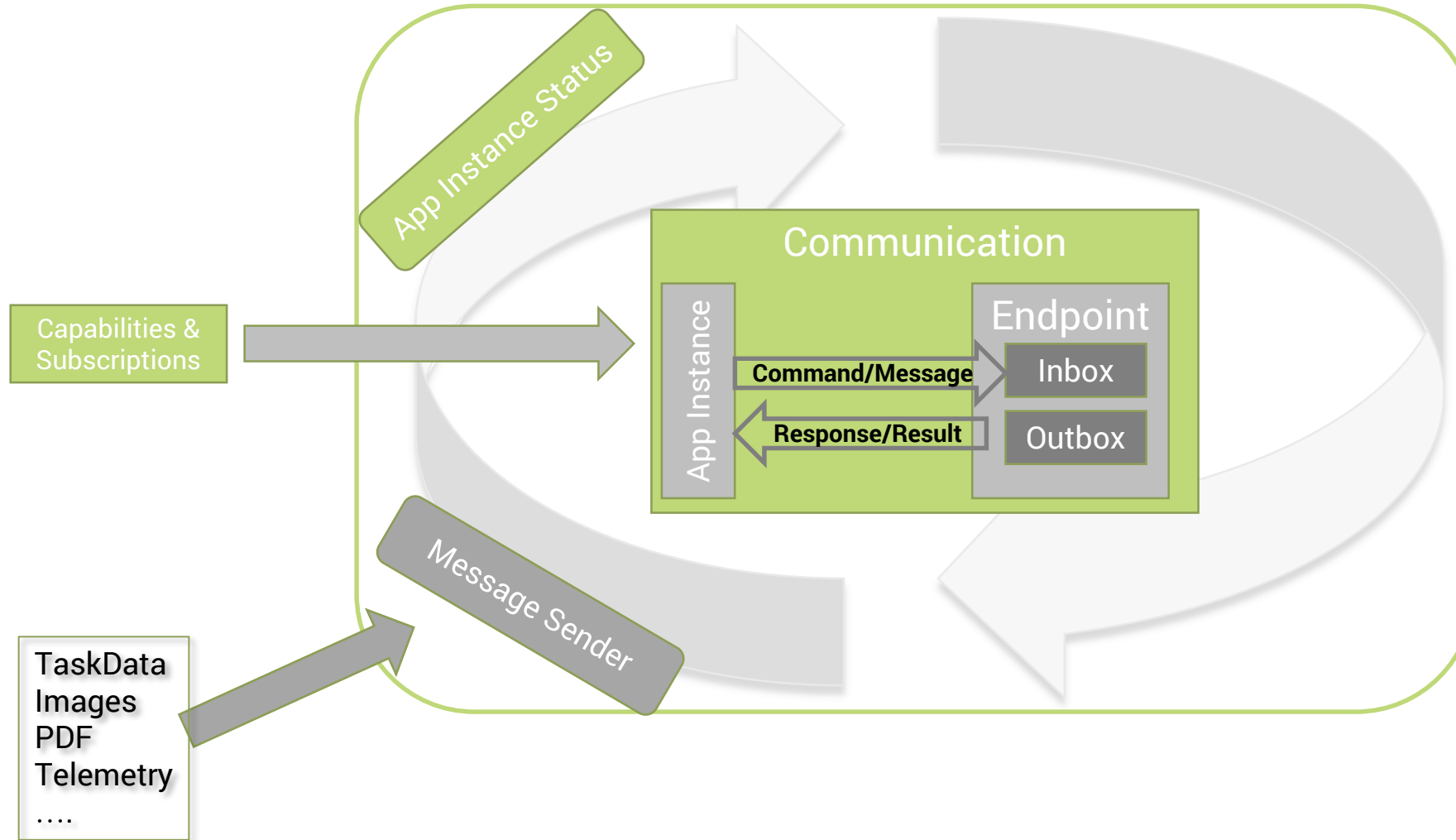
General workflow of communication



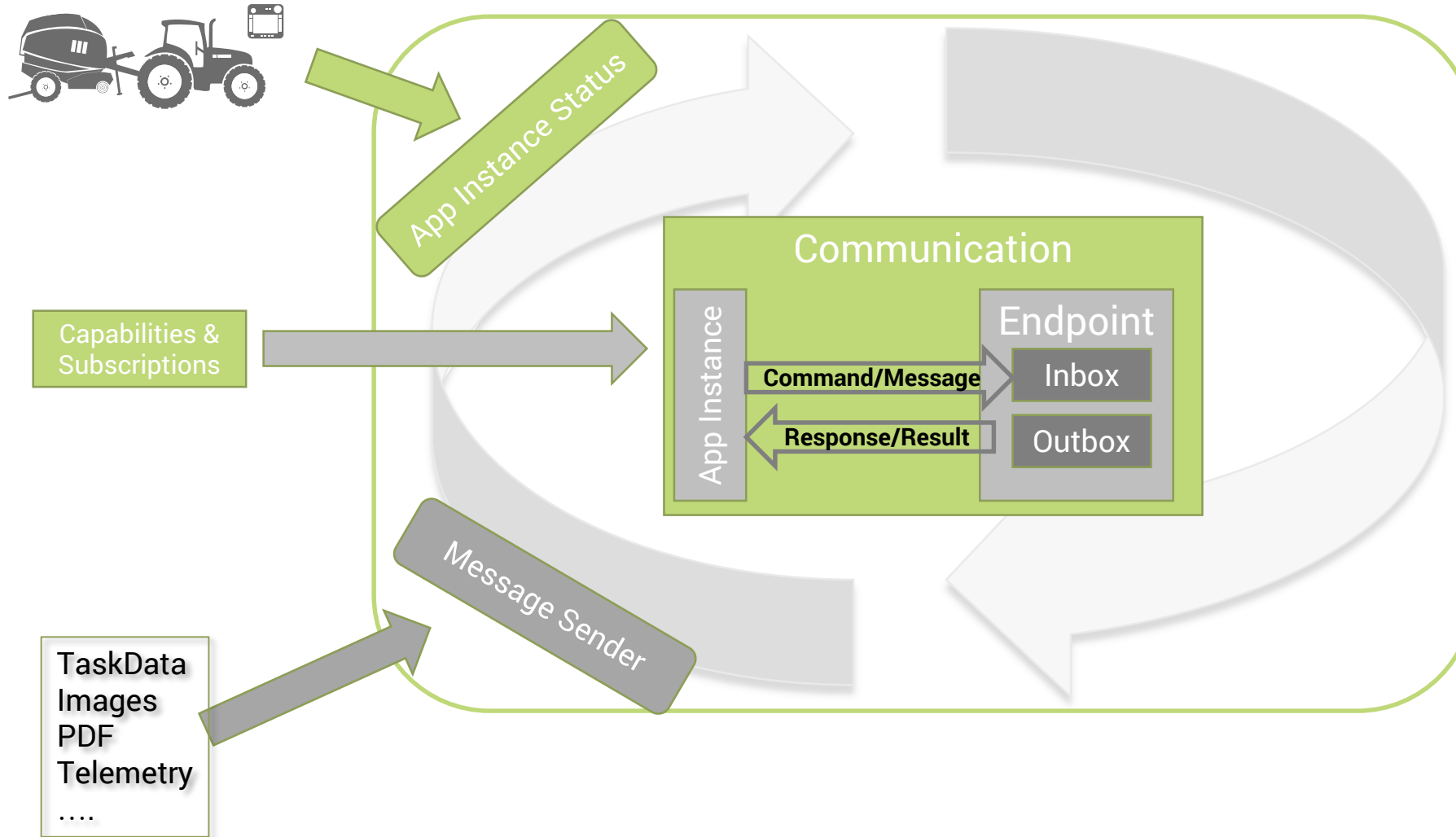
General workflow of communication



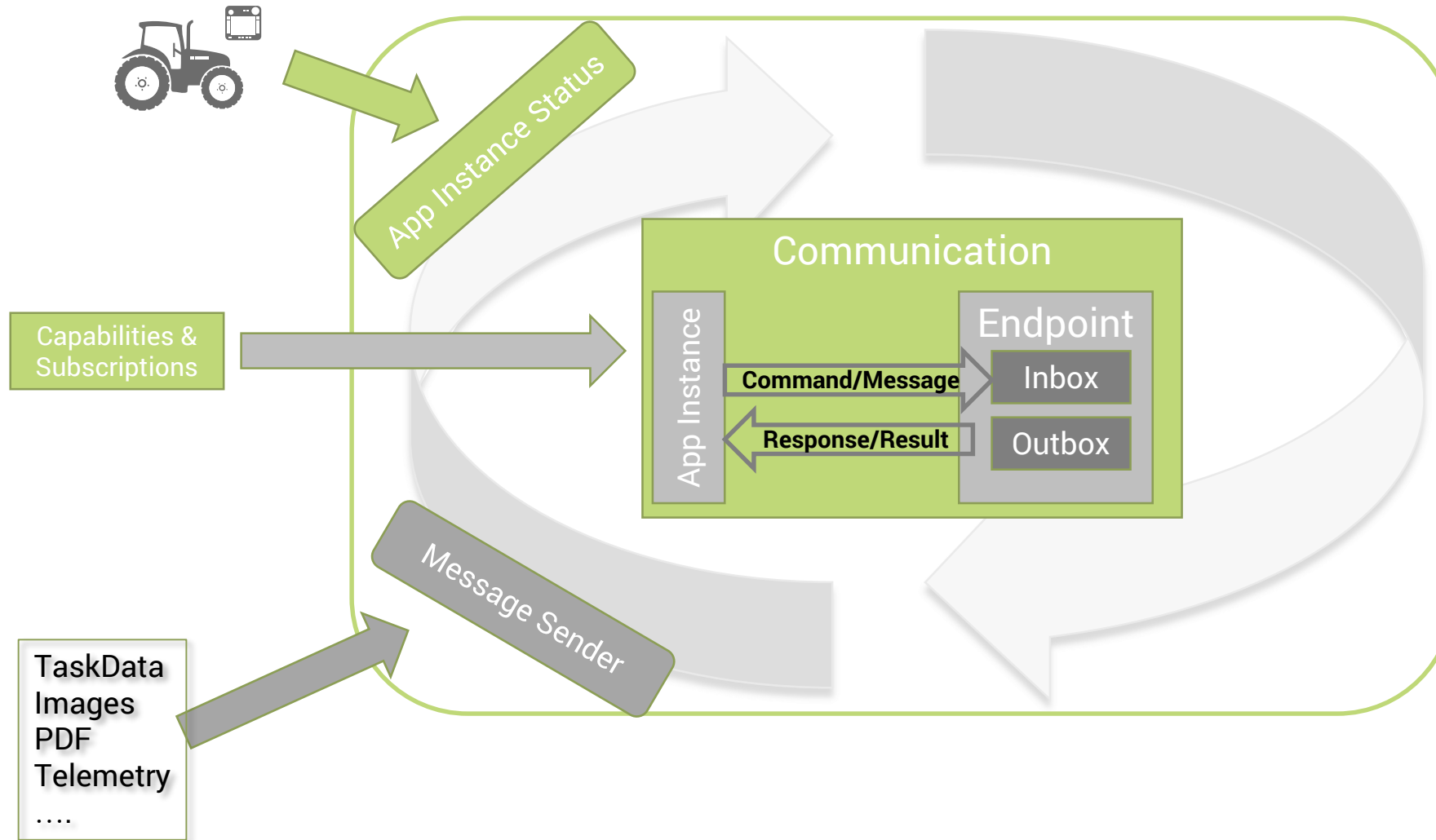
General workflow of communication



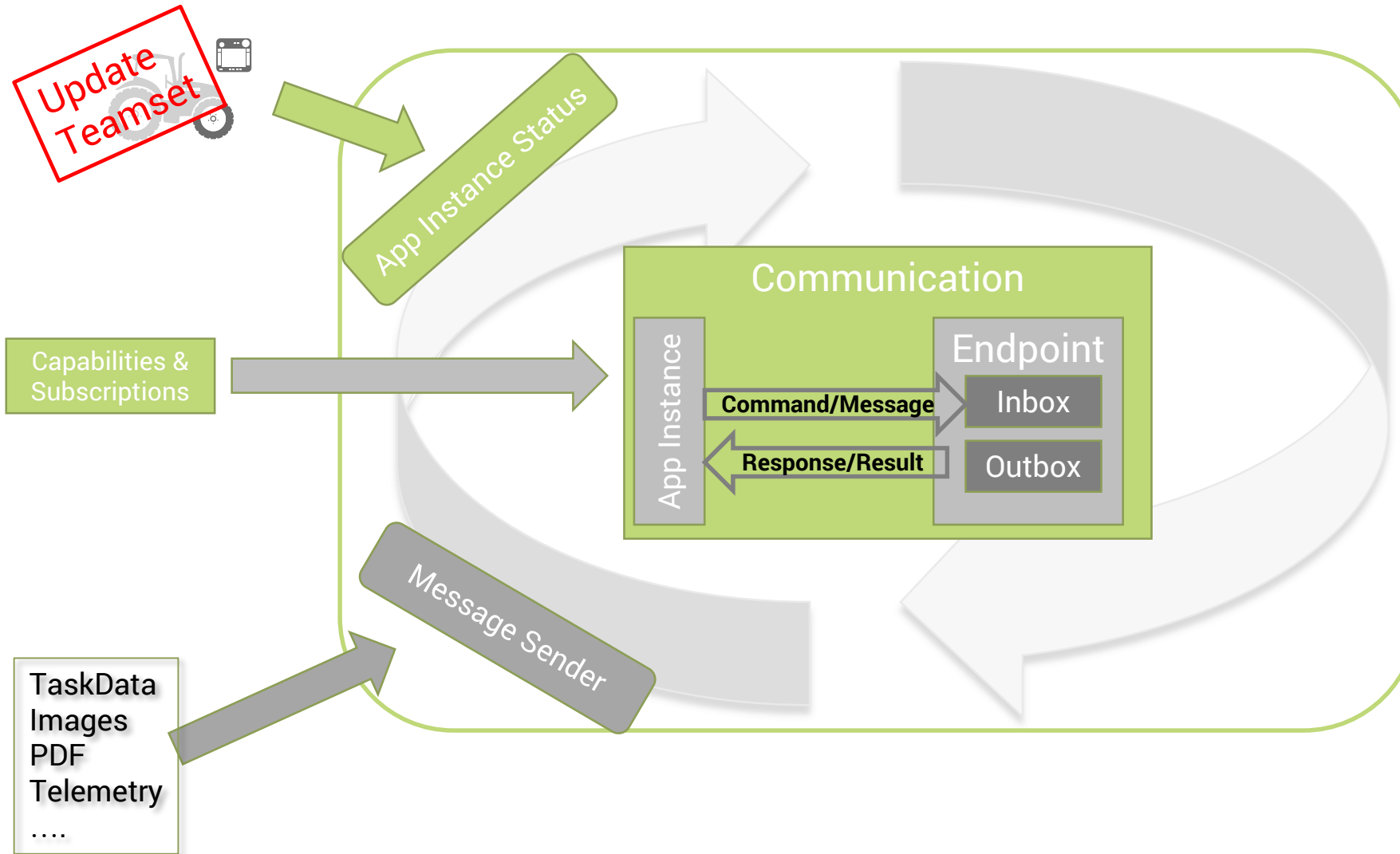
General workflow of communication



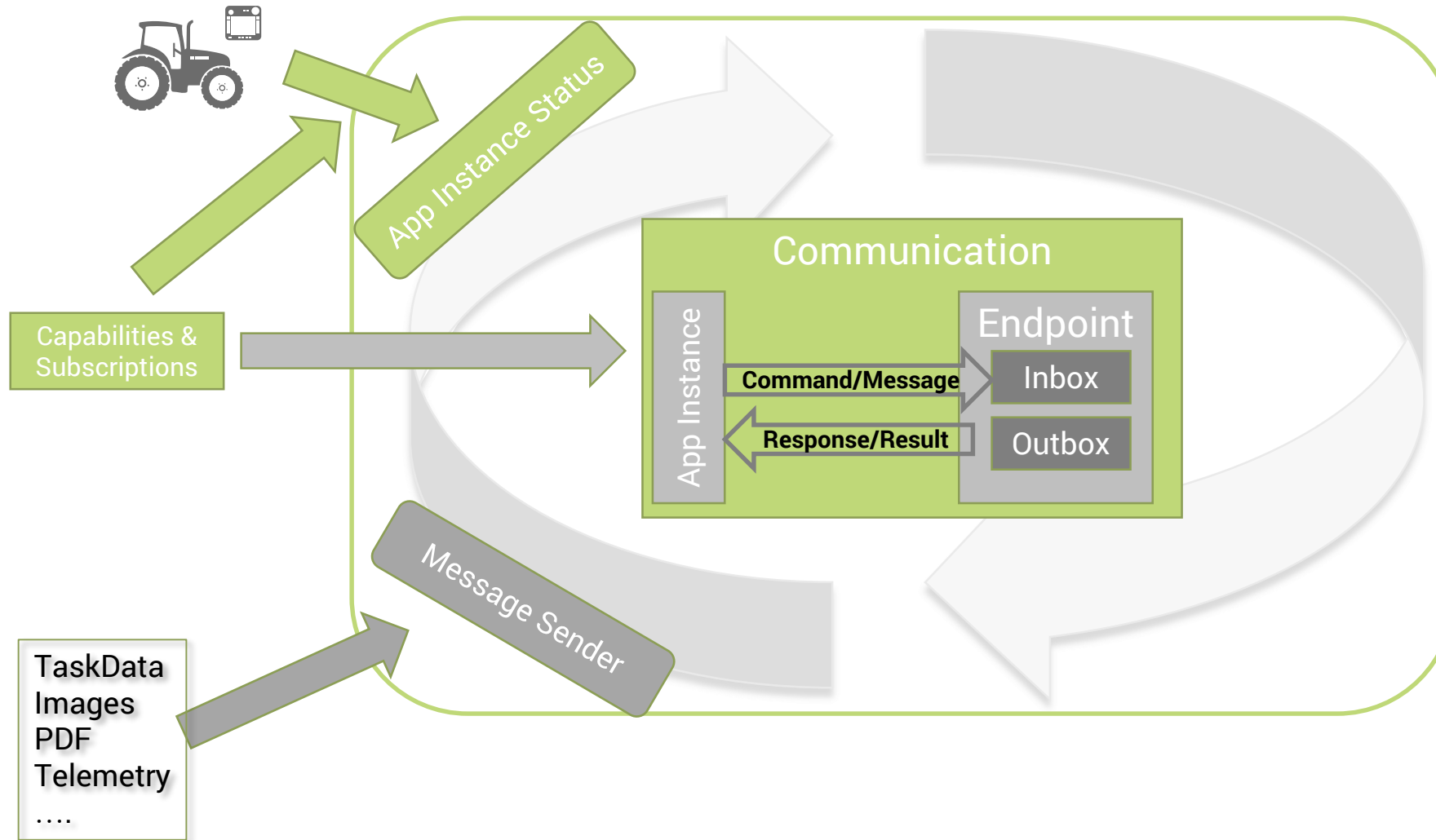
General workflow of communication



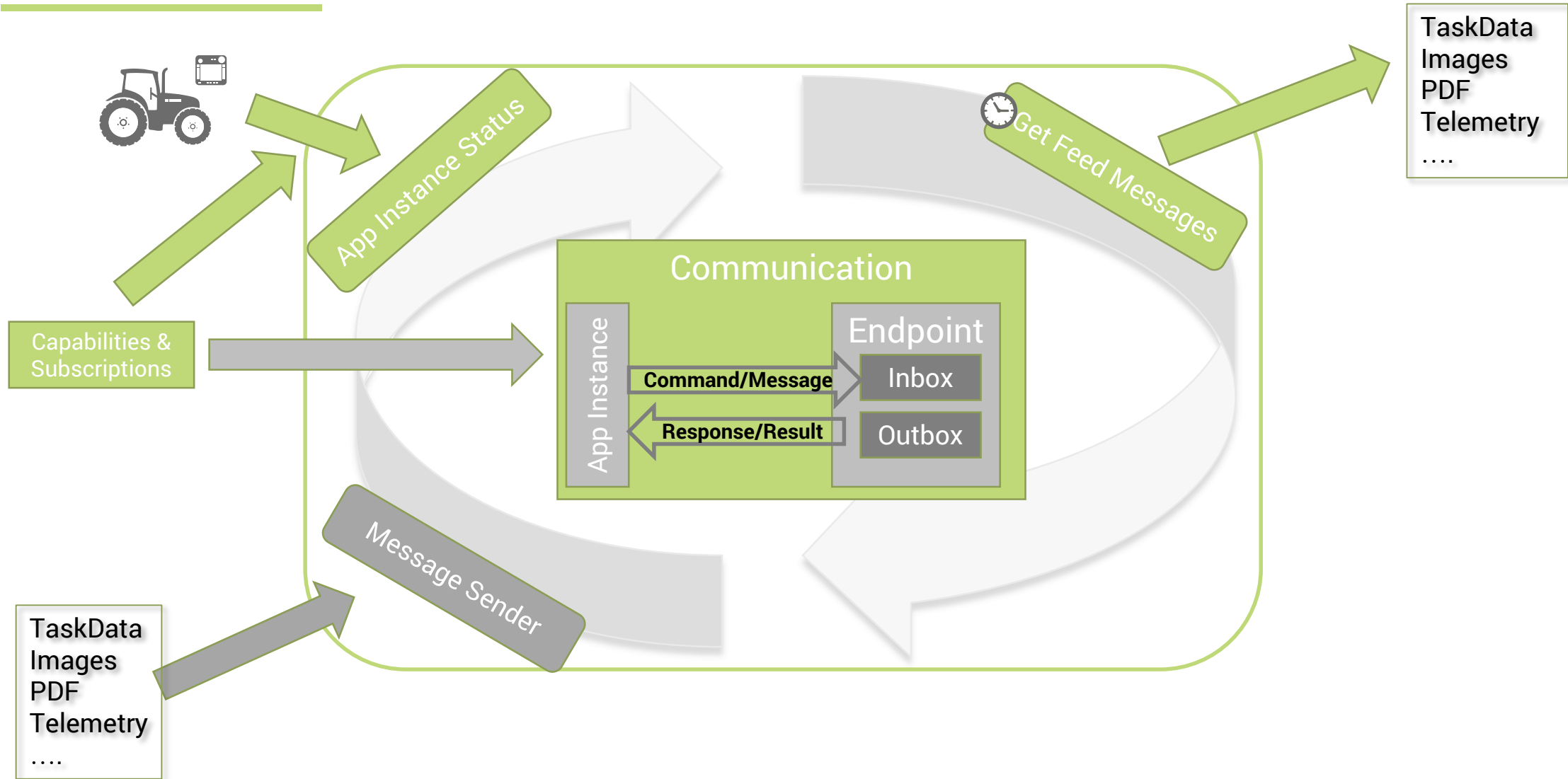
General workflow of communication



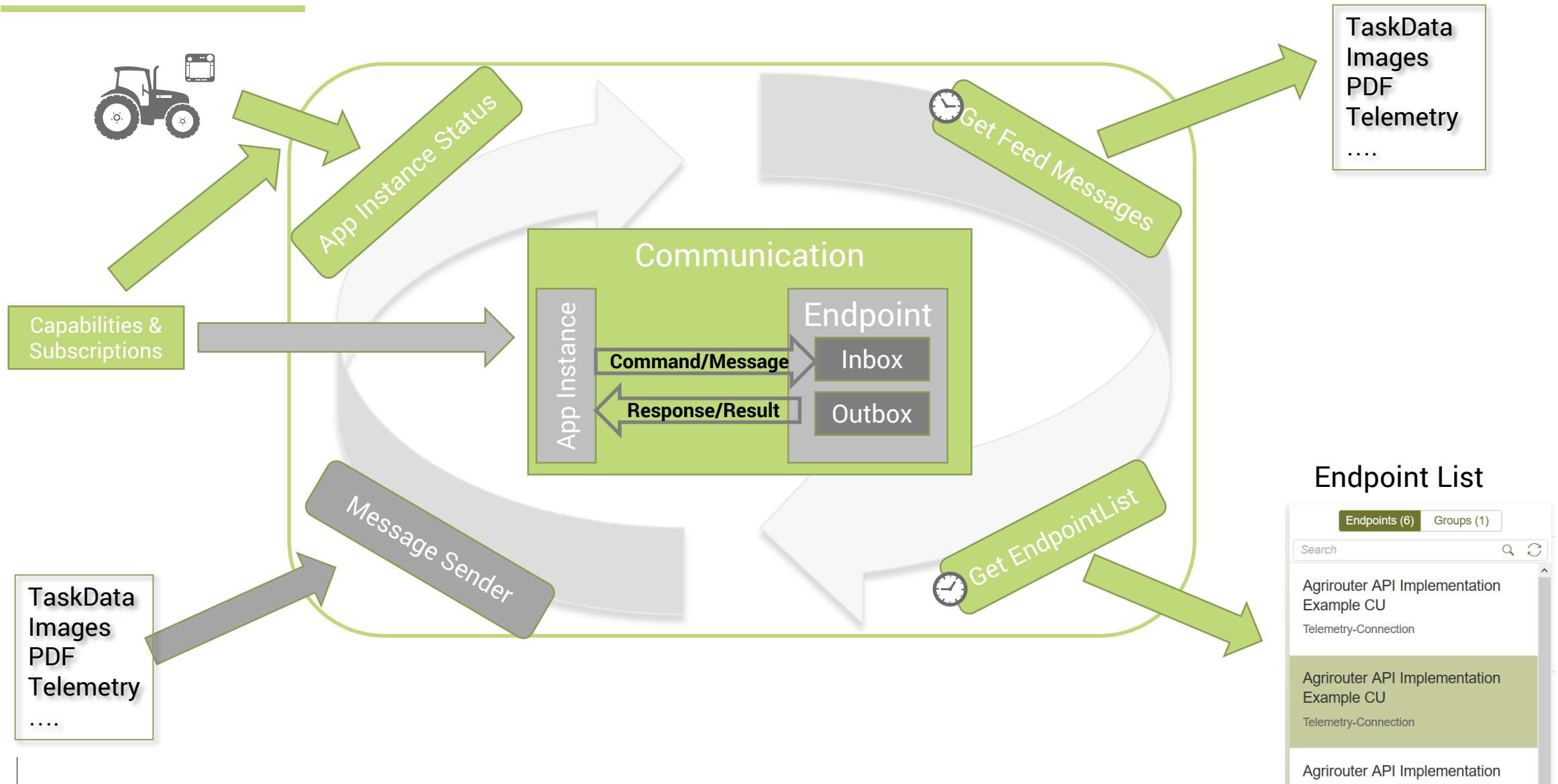
General workflow of communication



General workflow of communication



General workflow of communication



Building a message (1)

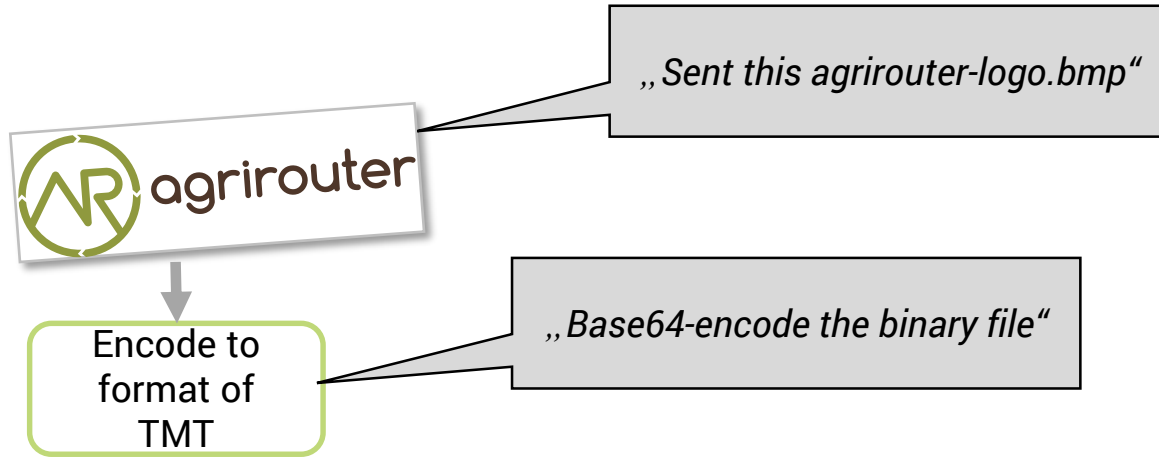


Building a message (1)

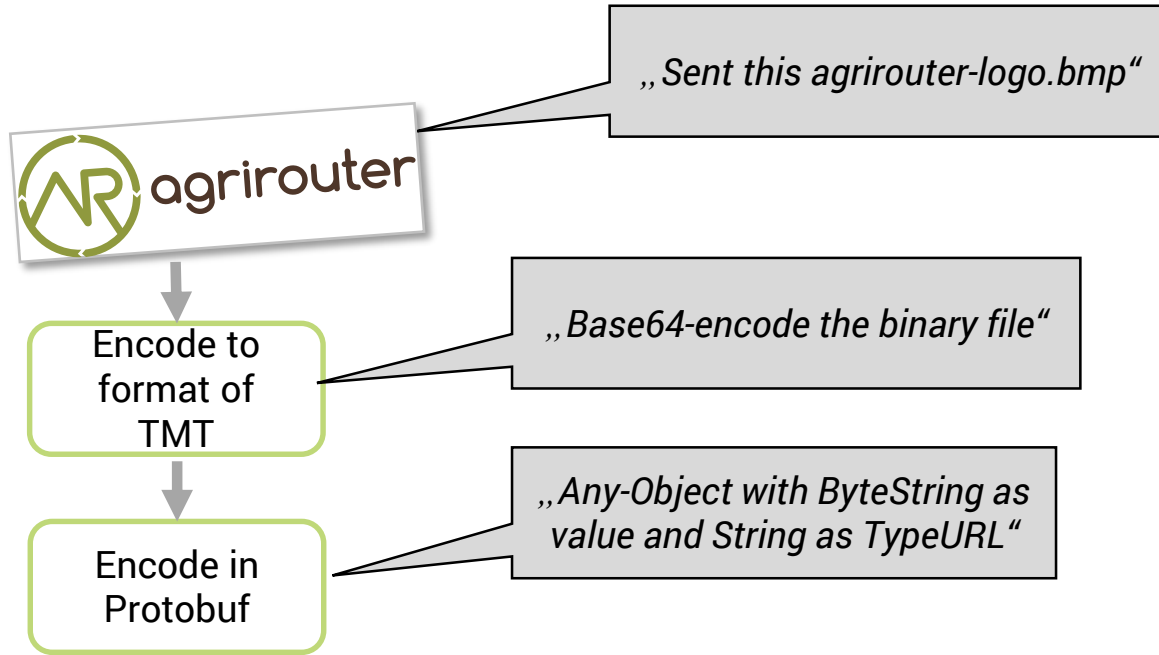


„Sent this agrirouter-logo.bmp“

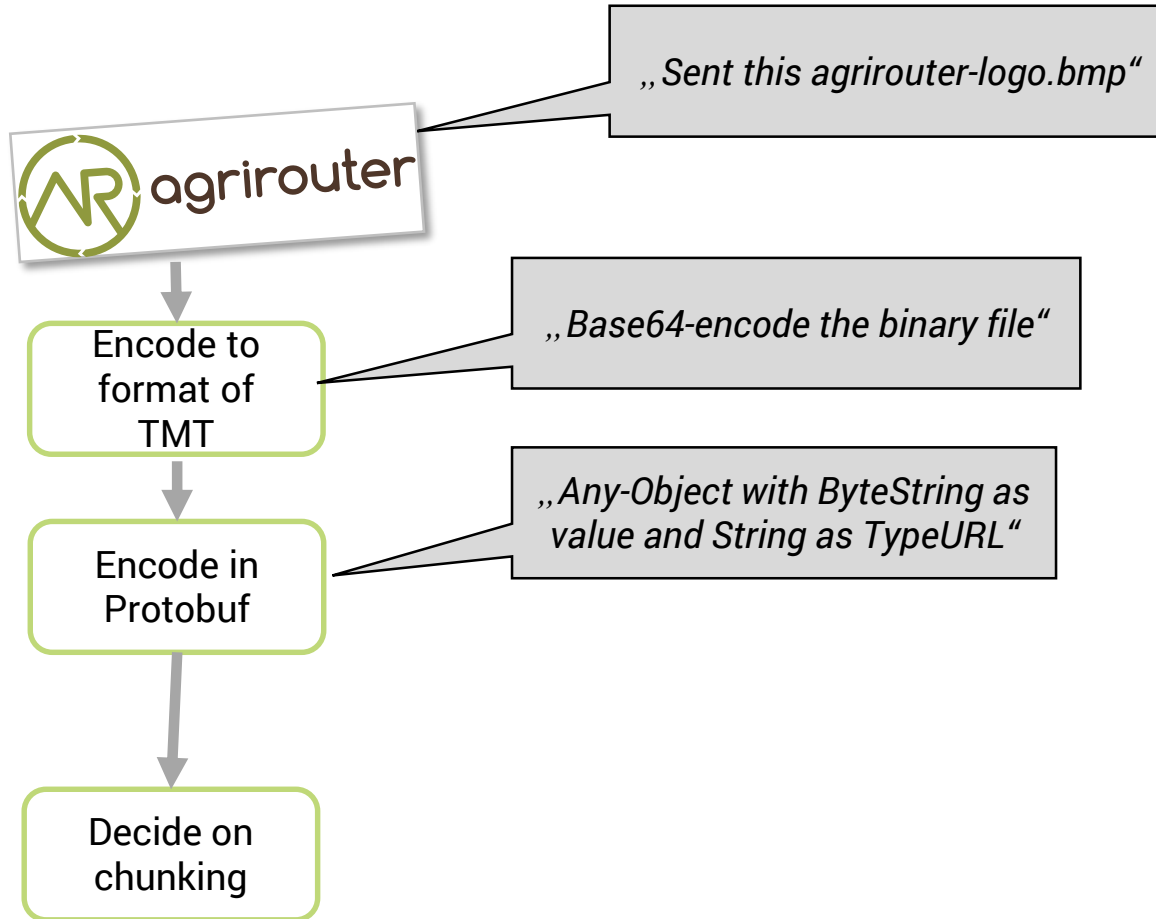
Building a message (1)



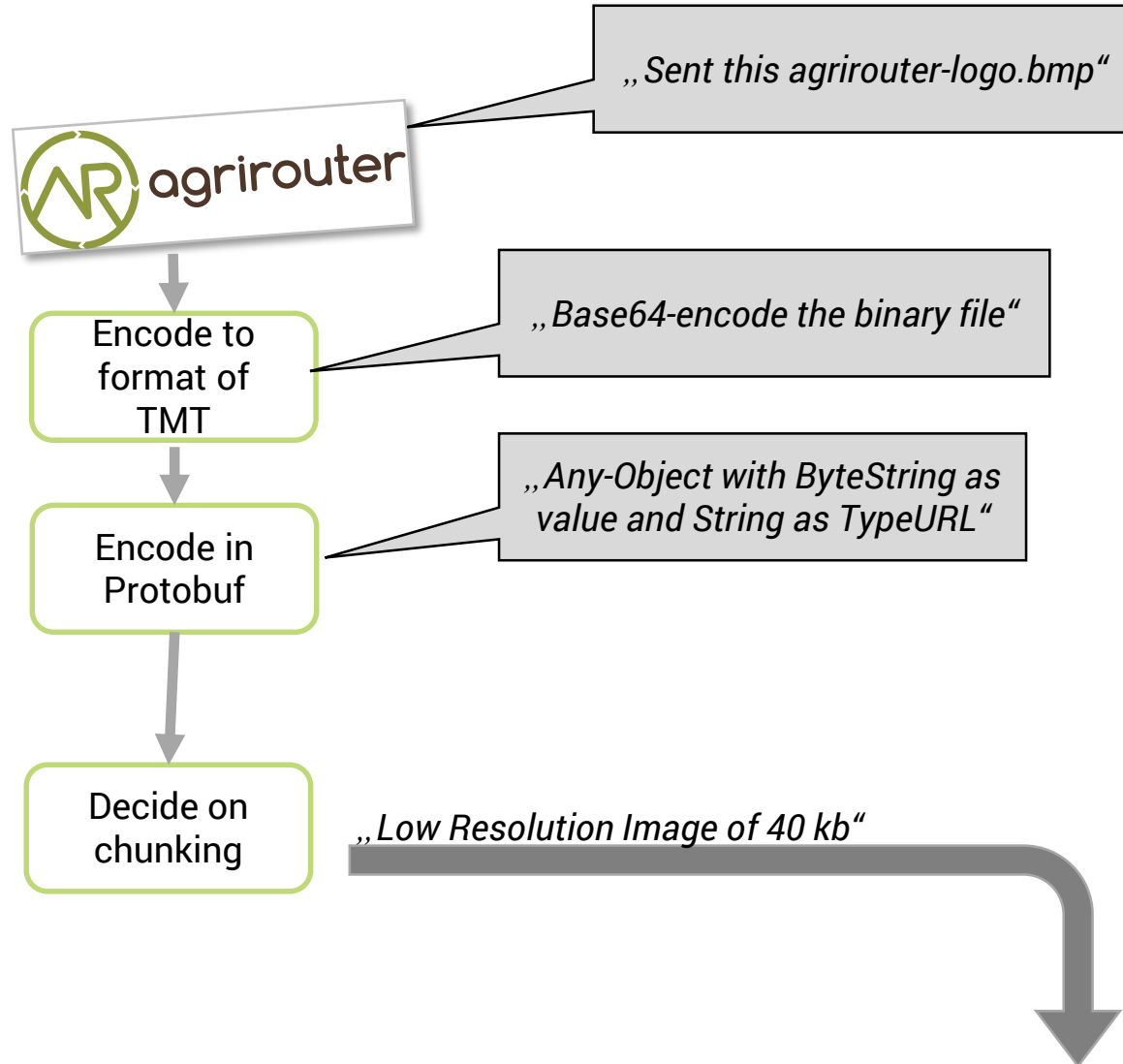
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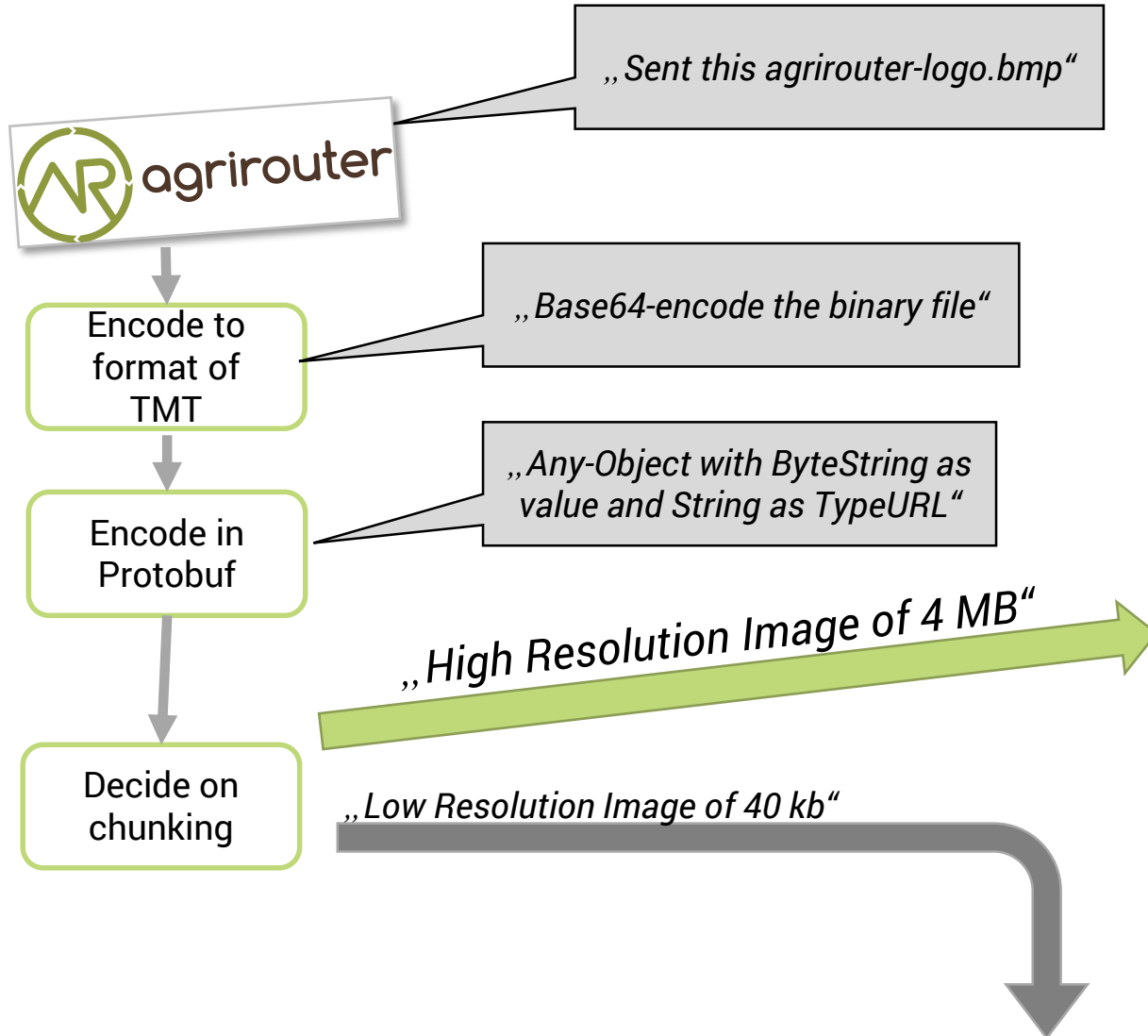
Building a message (1)



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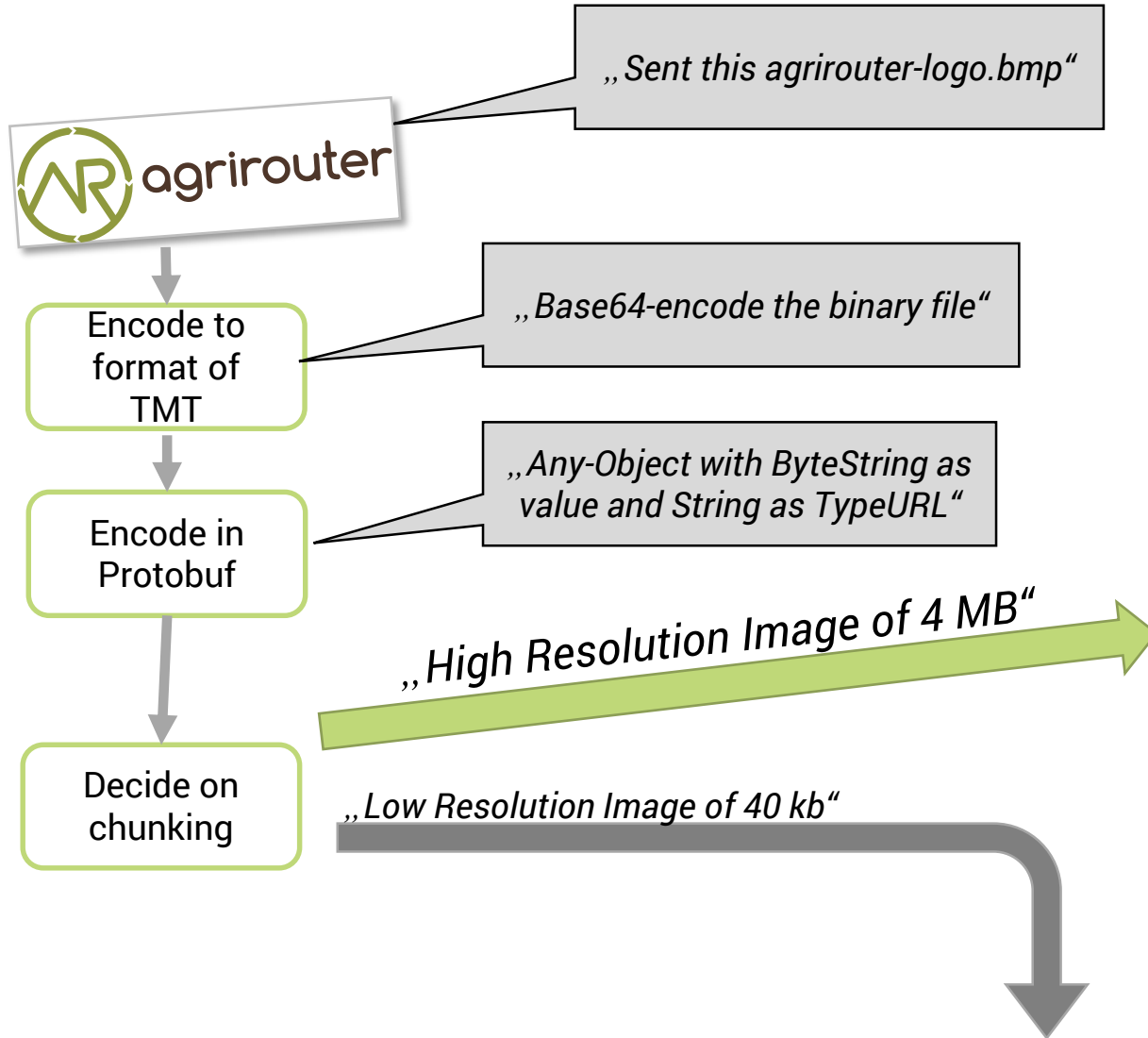


Building a message (1)



About chunking

Building a message (1)



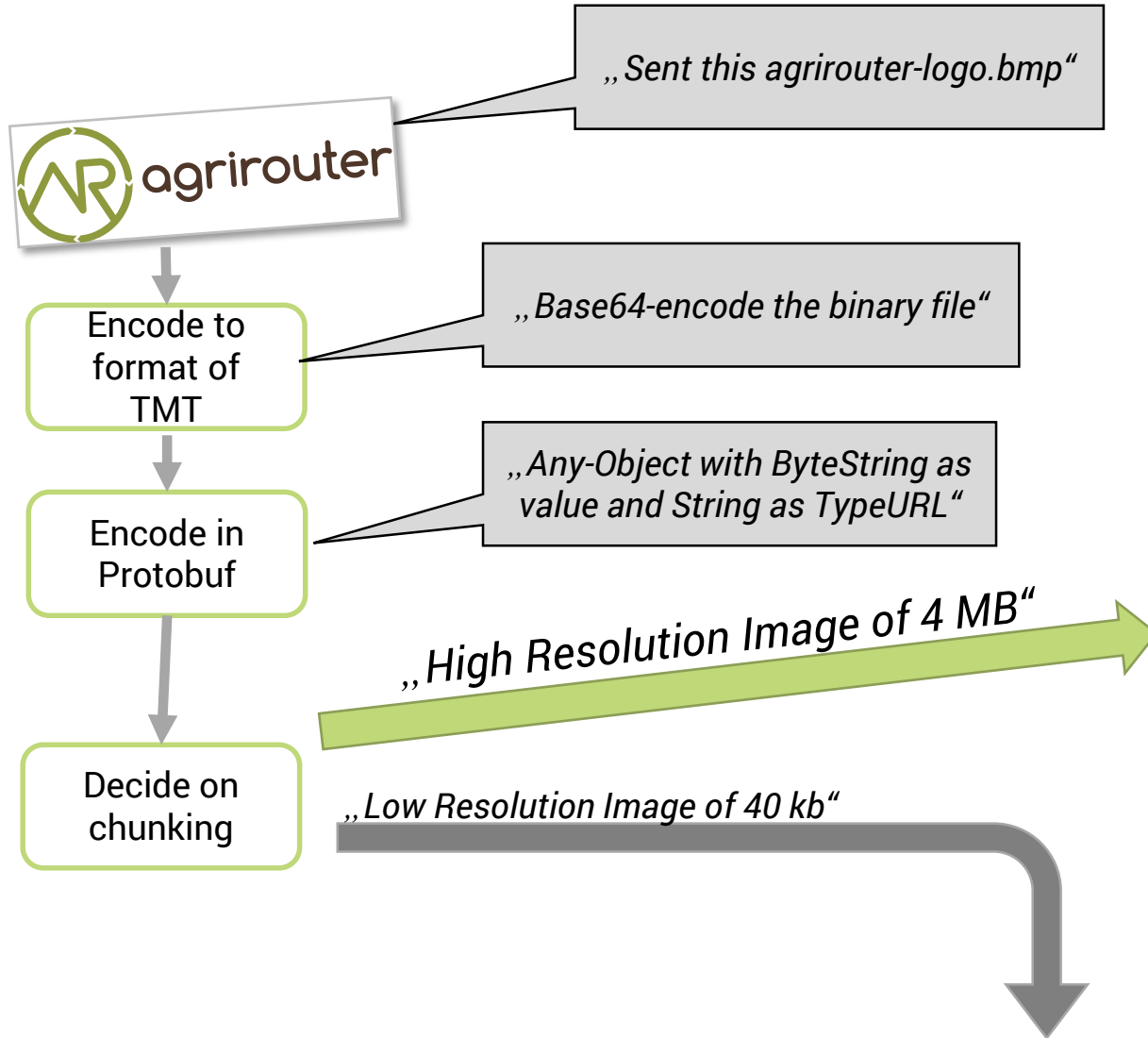
About chunking




Base64


= 4 MegaByte

Building a message (1)

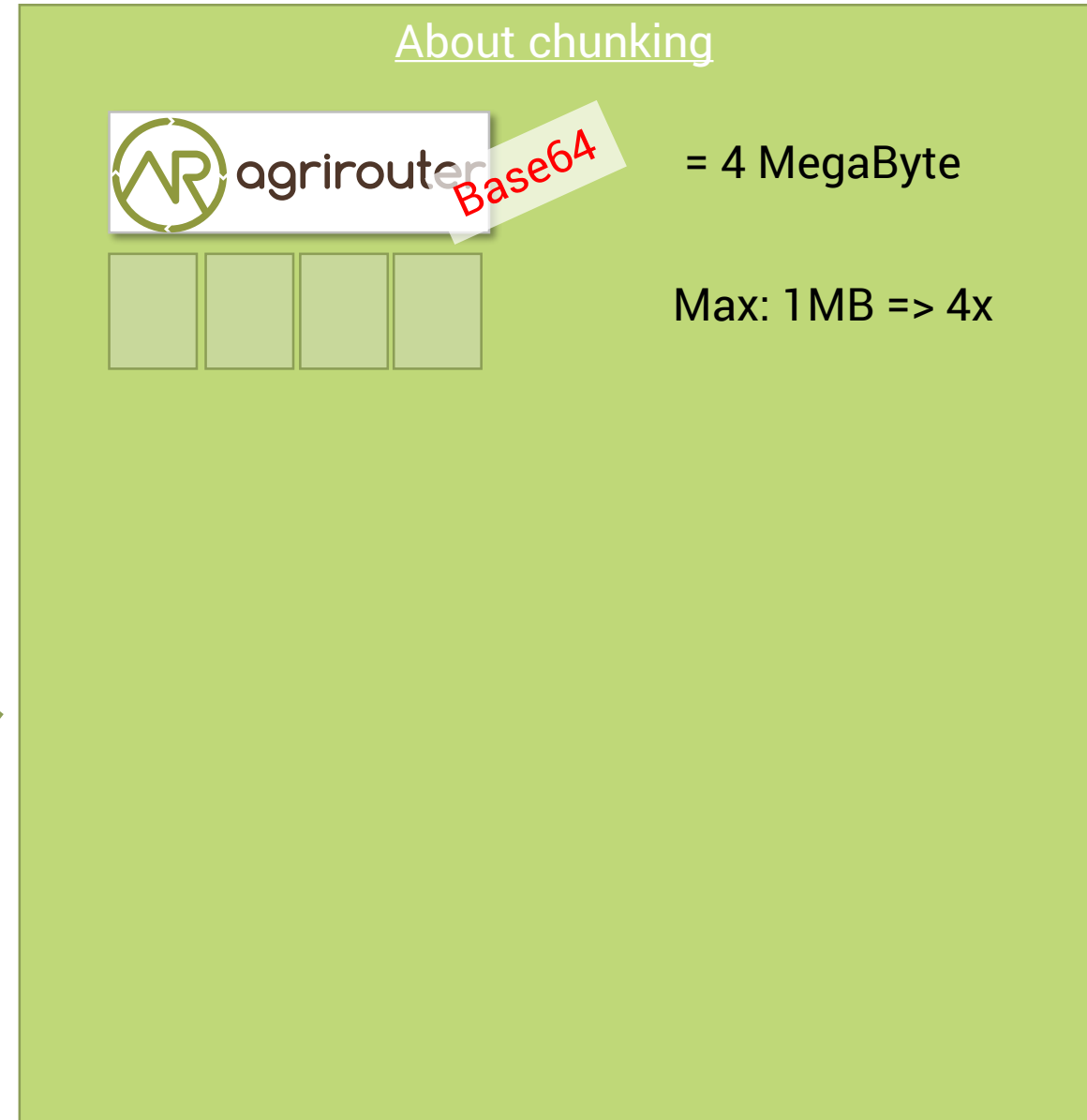
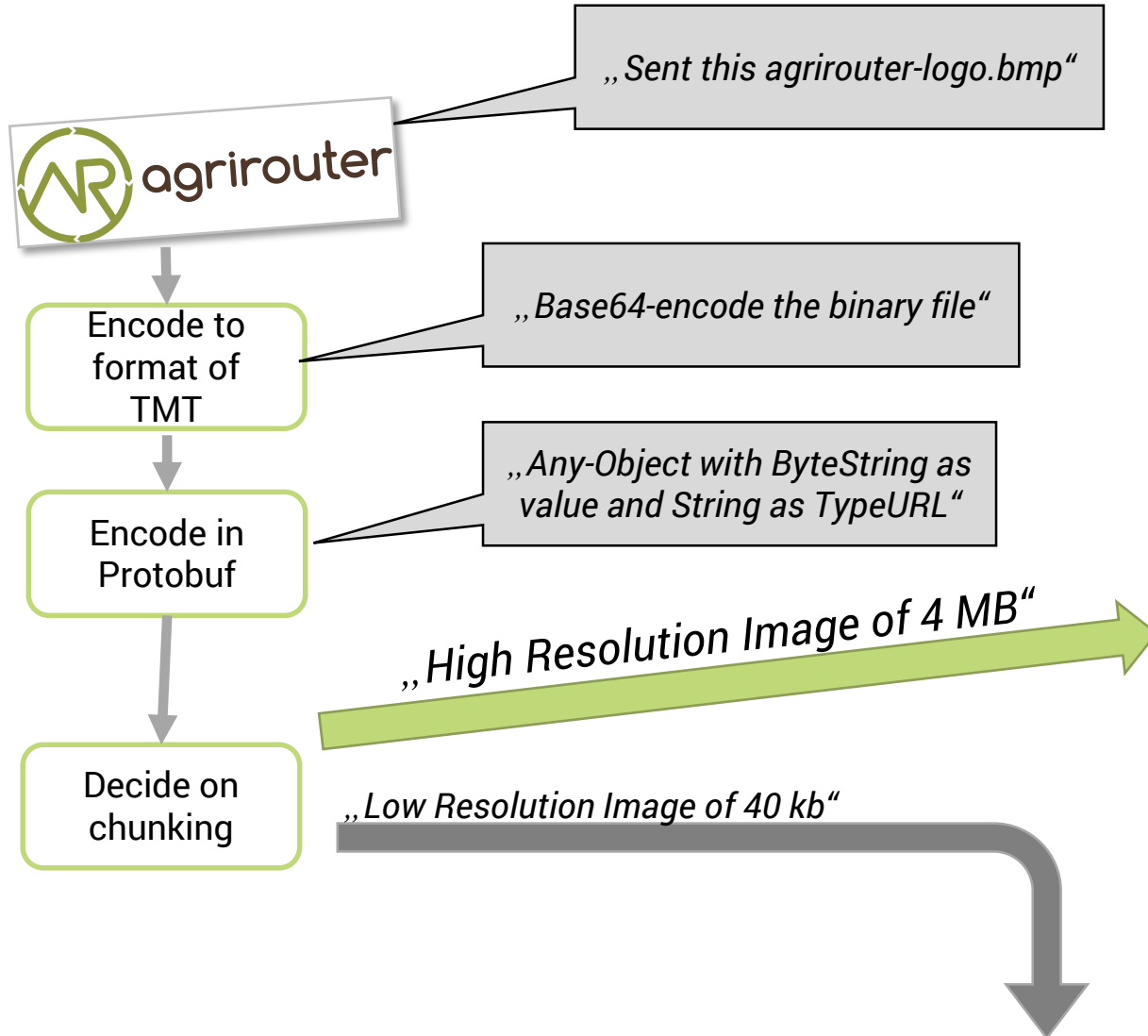


About chunking

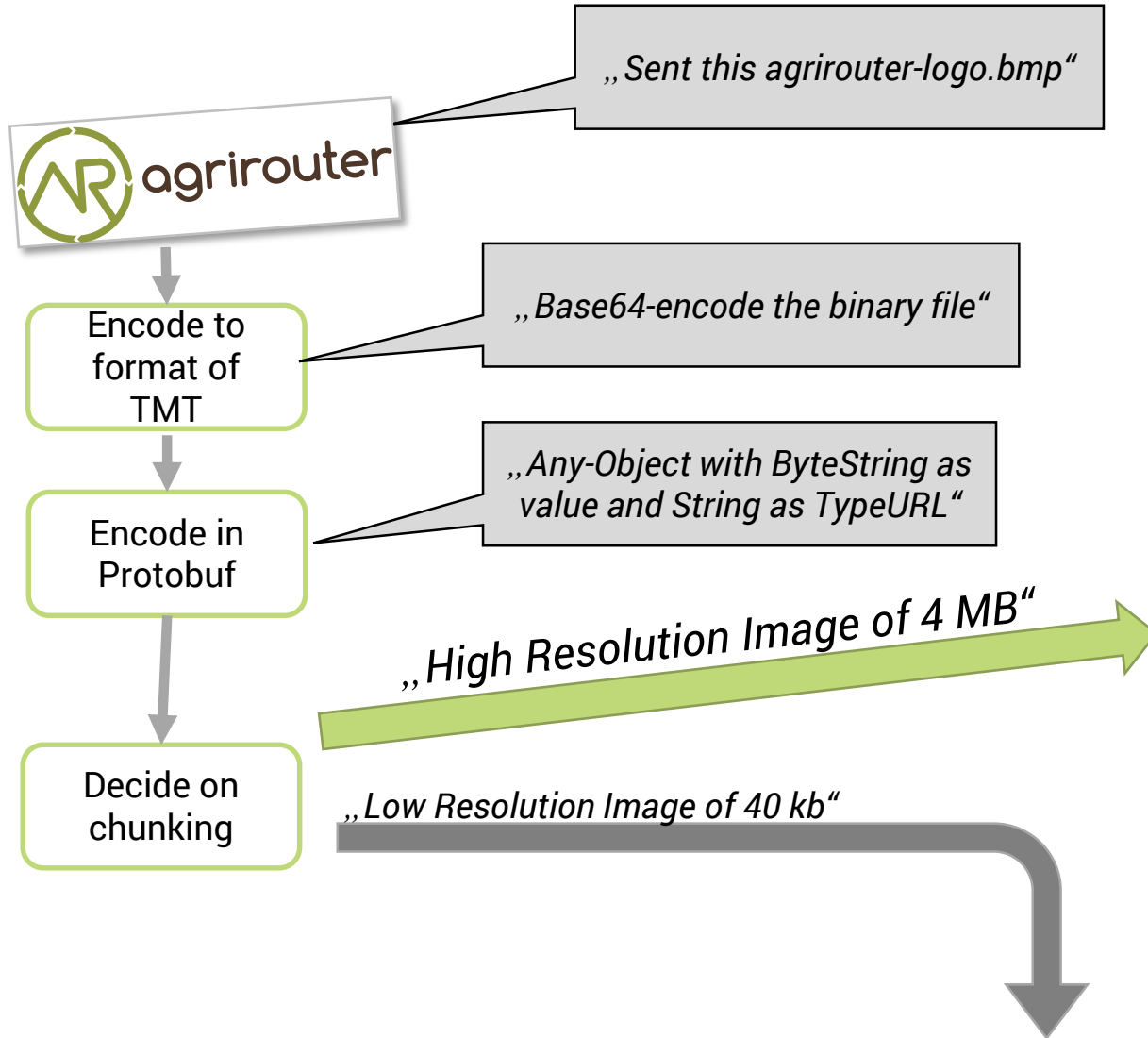
 agrirouter **Base64** = 4 MegaByte

 Max: 1 MB => 4x

Building a message (1)



Building a message (1)



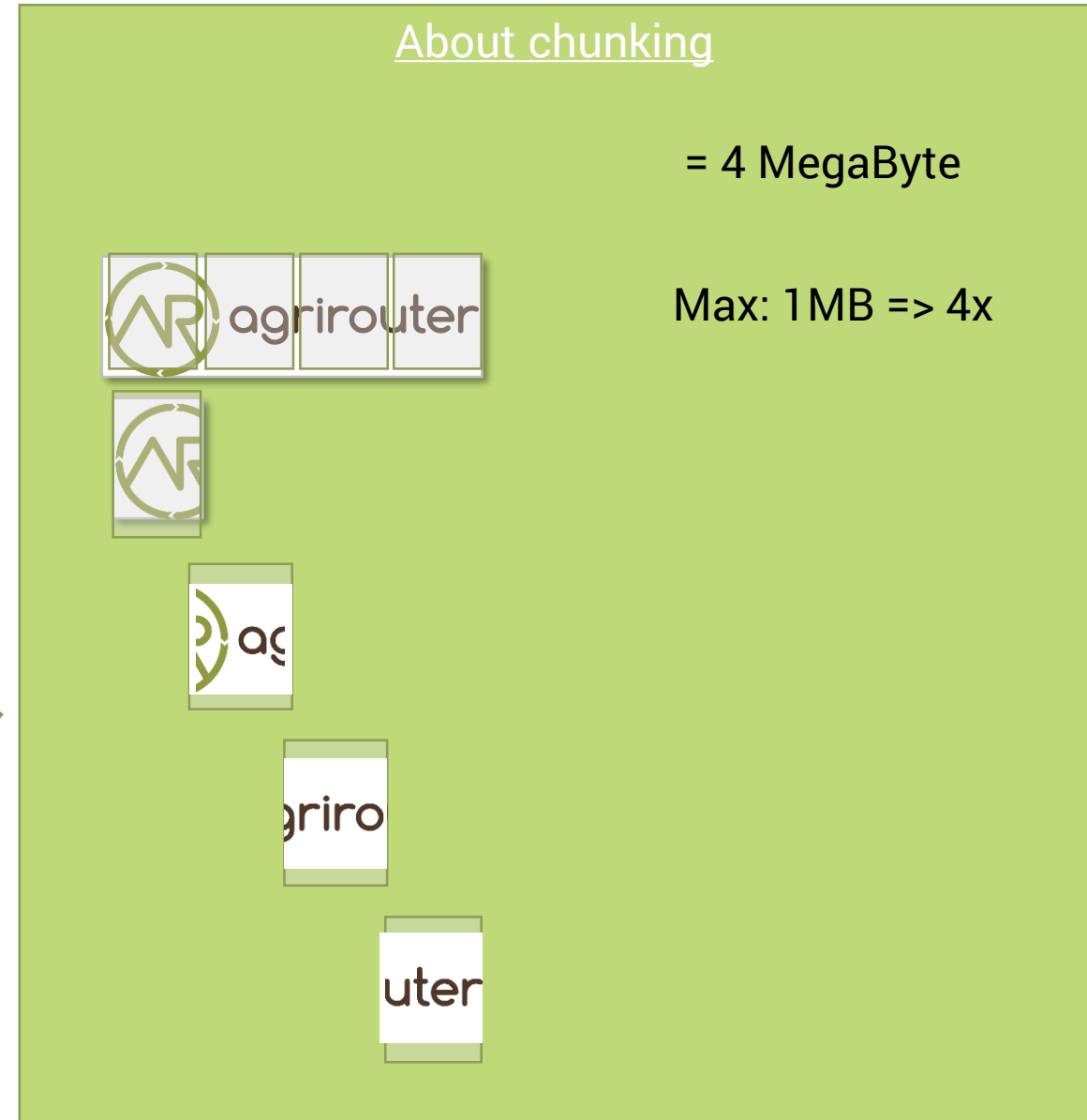
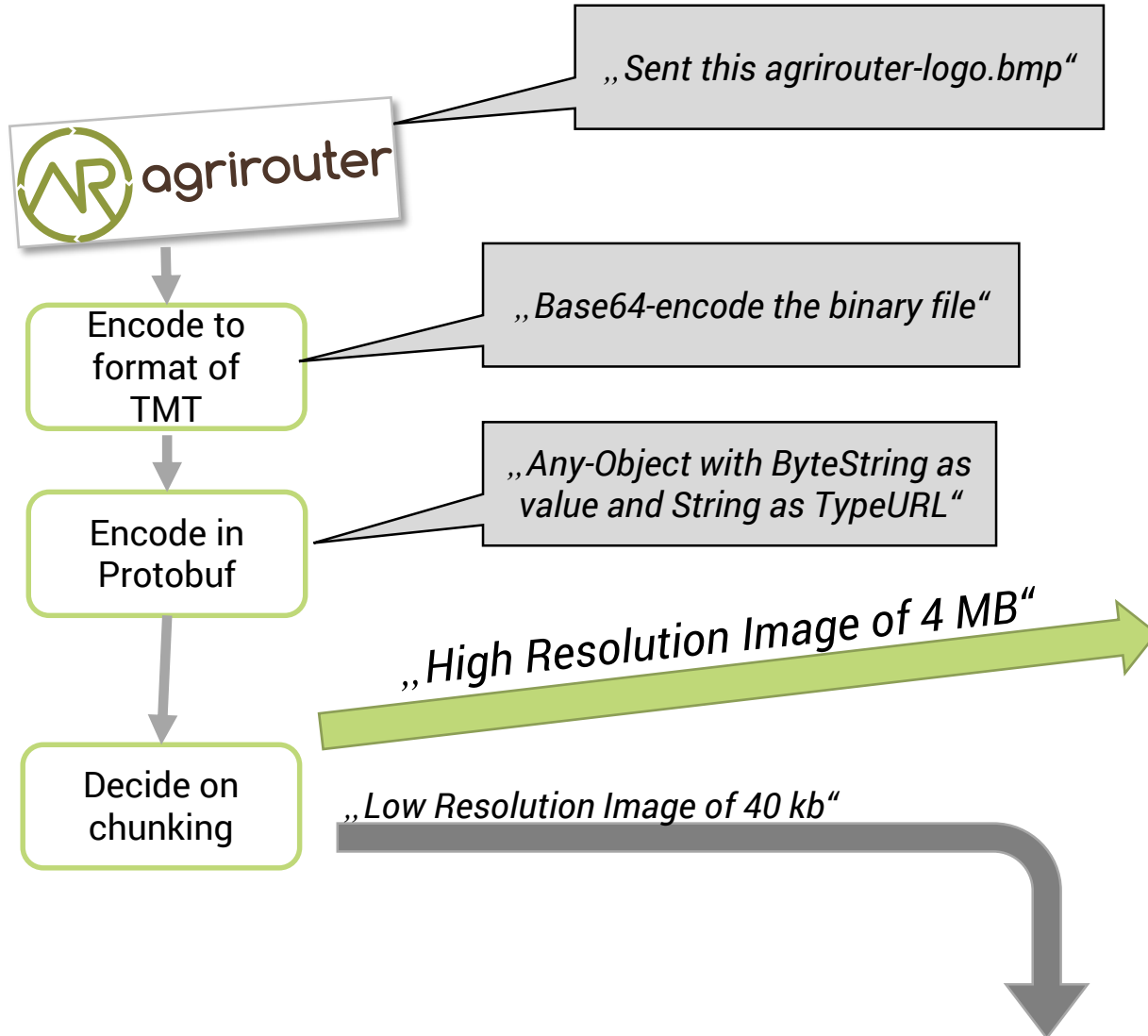
About chunking

= 4 MegaByte

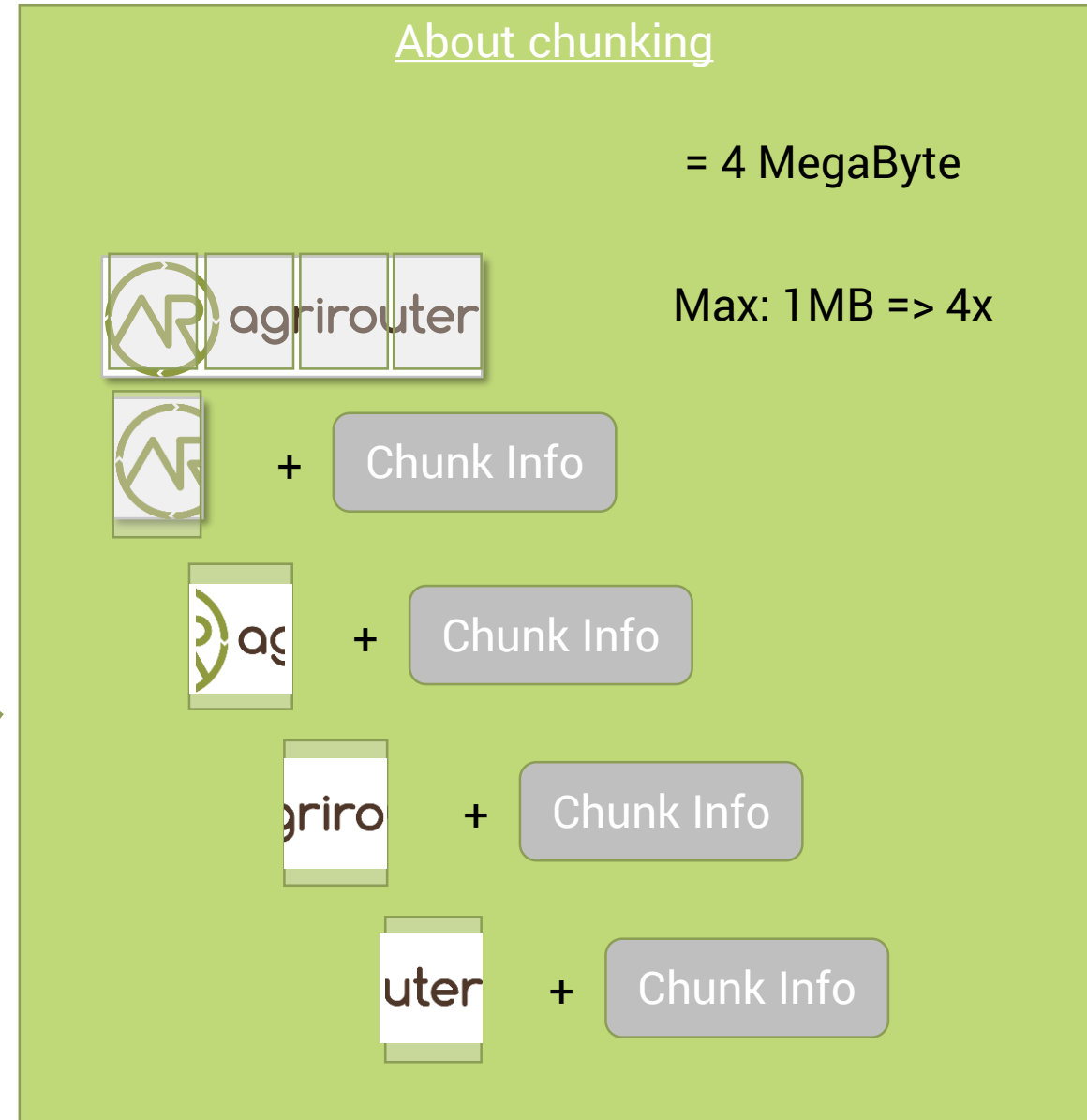
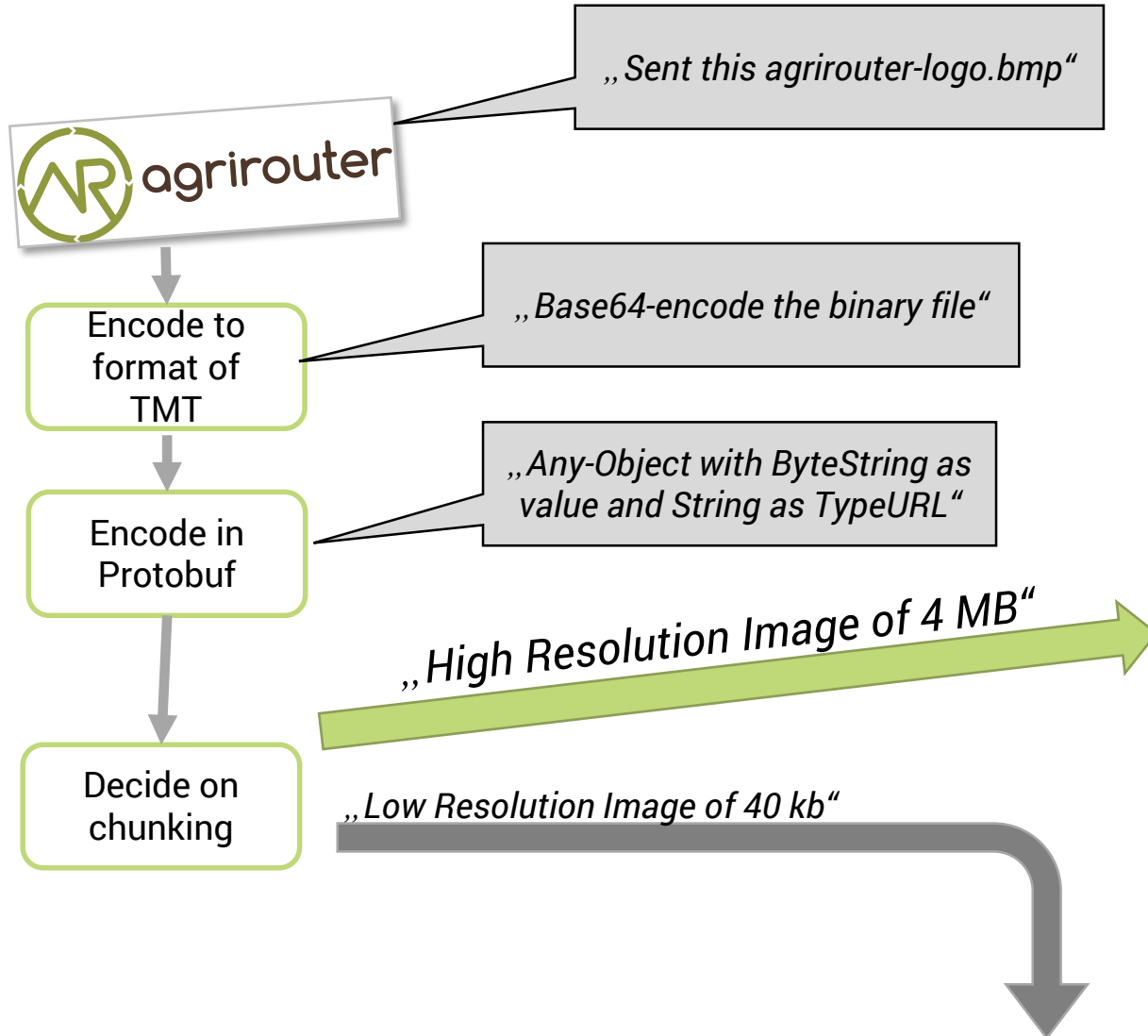
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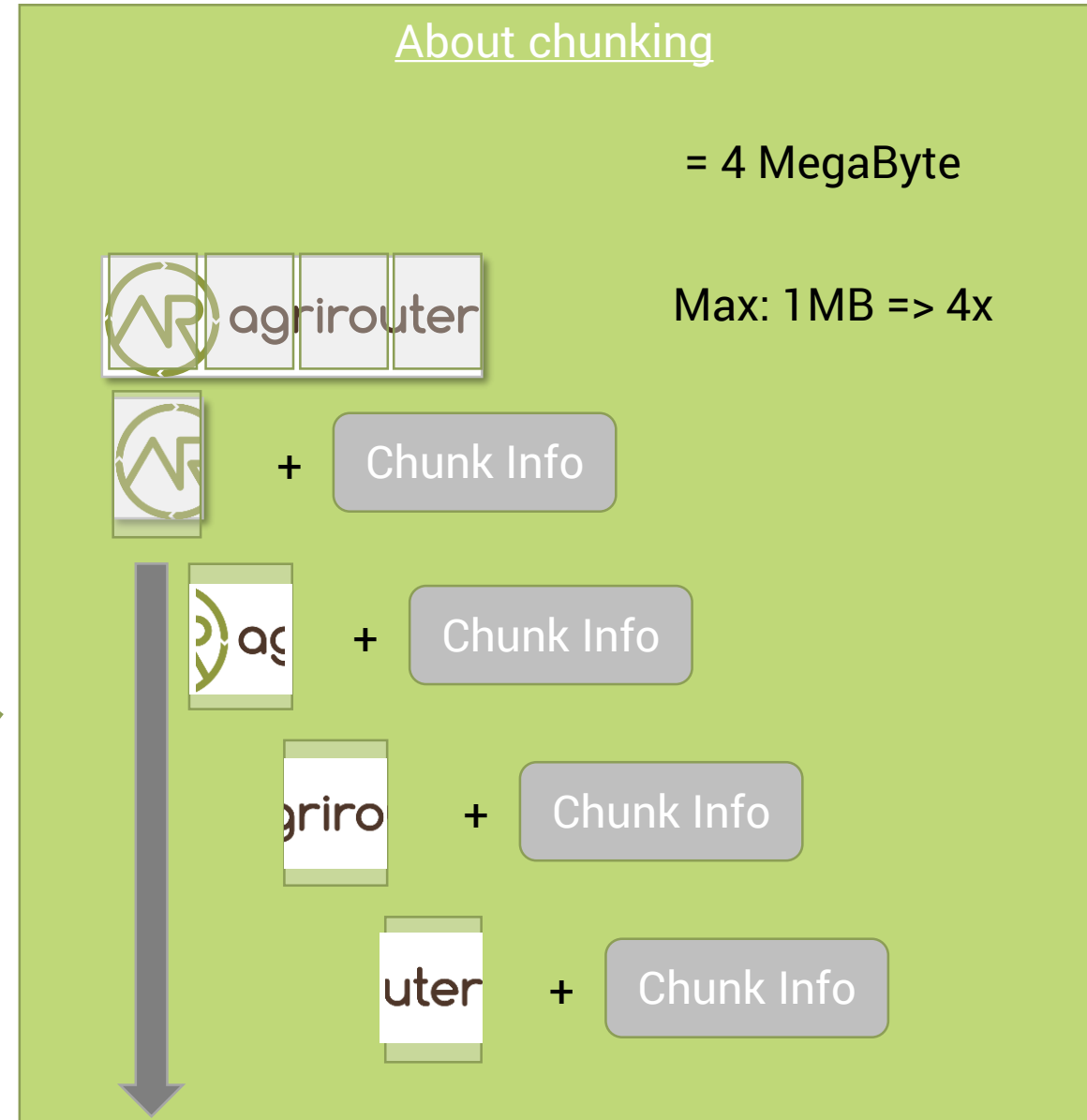
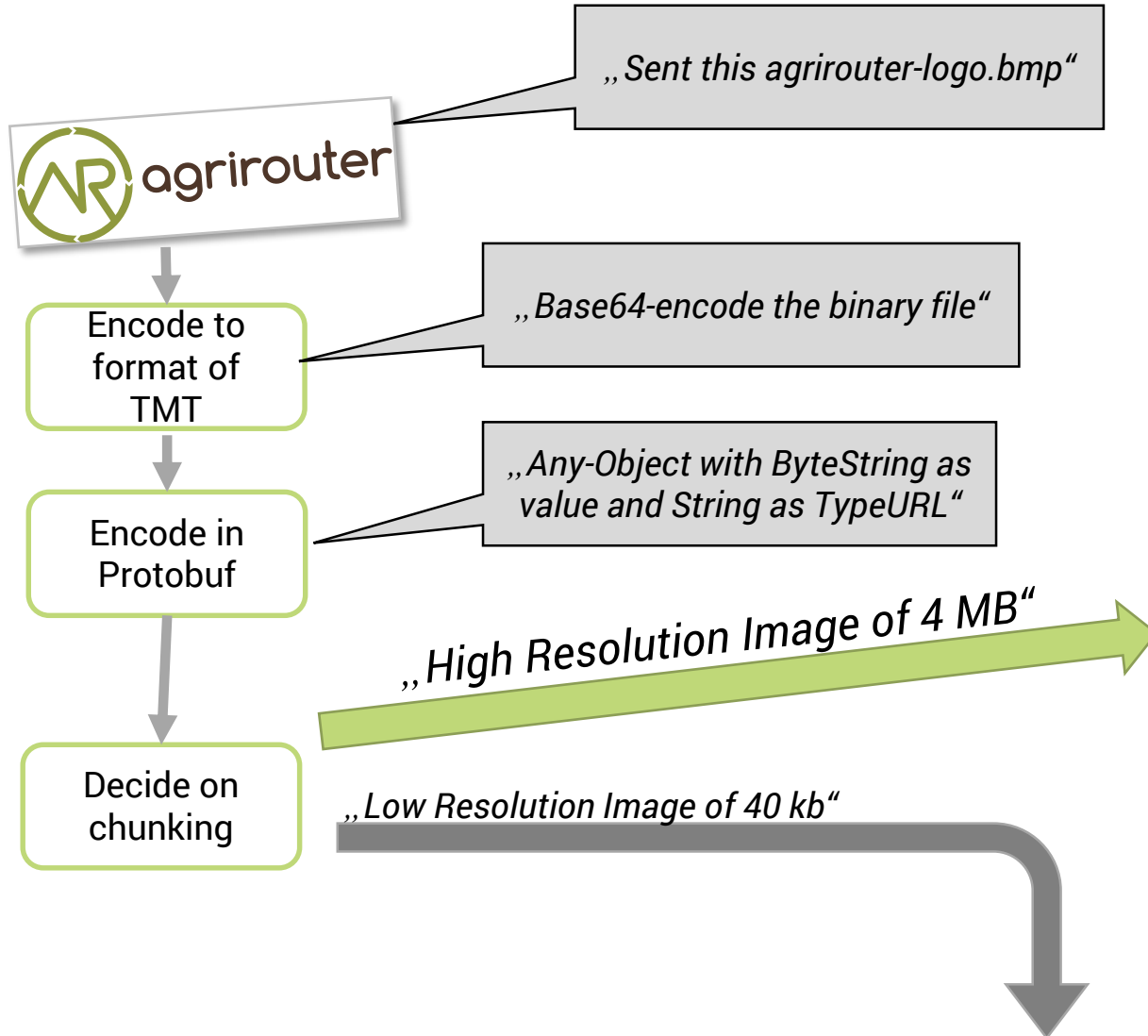
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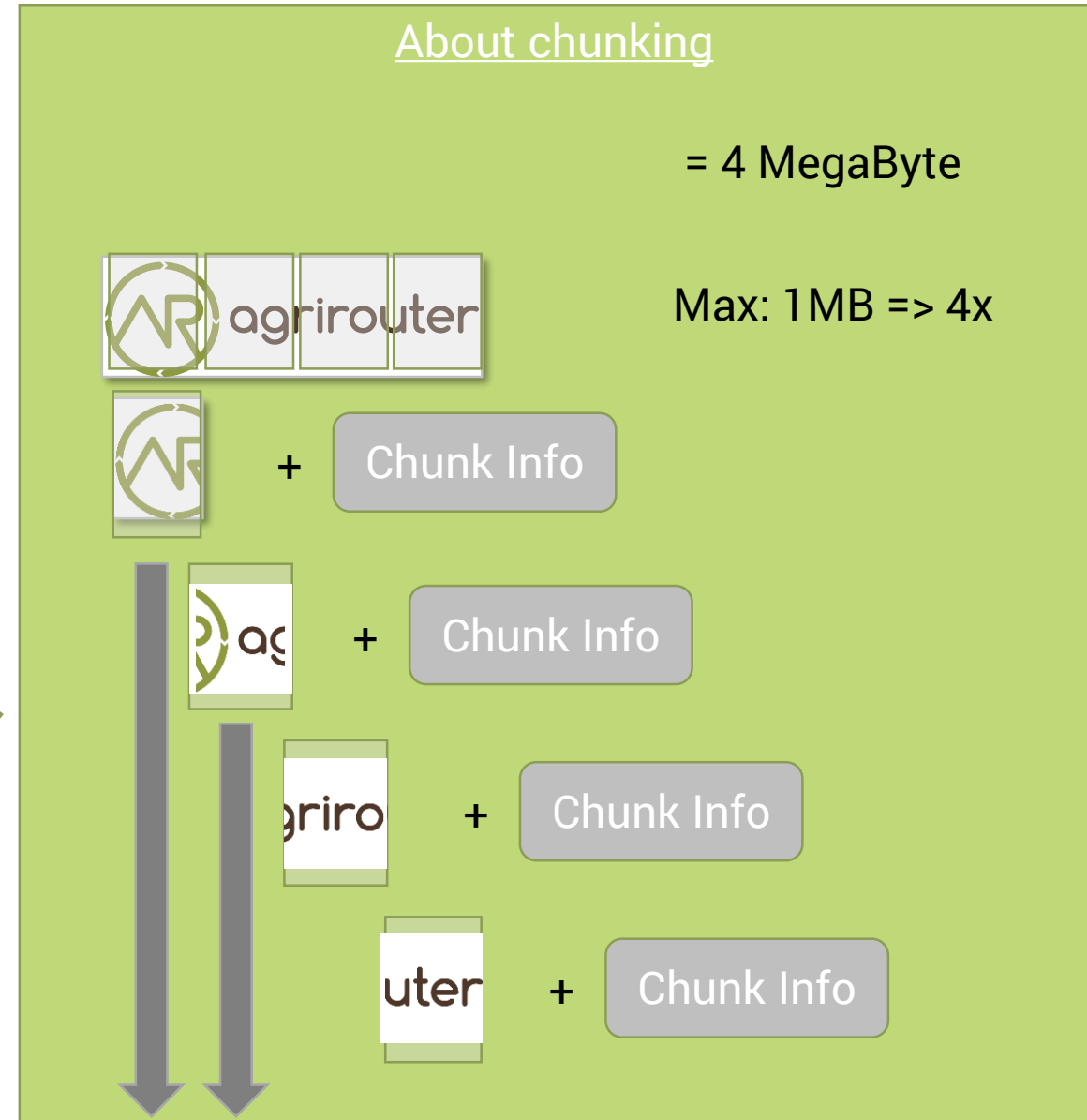
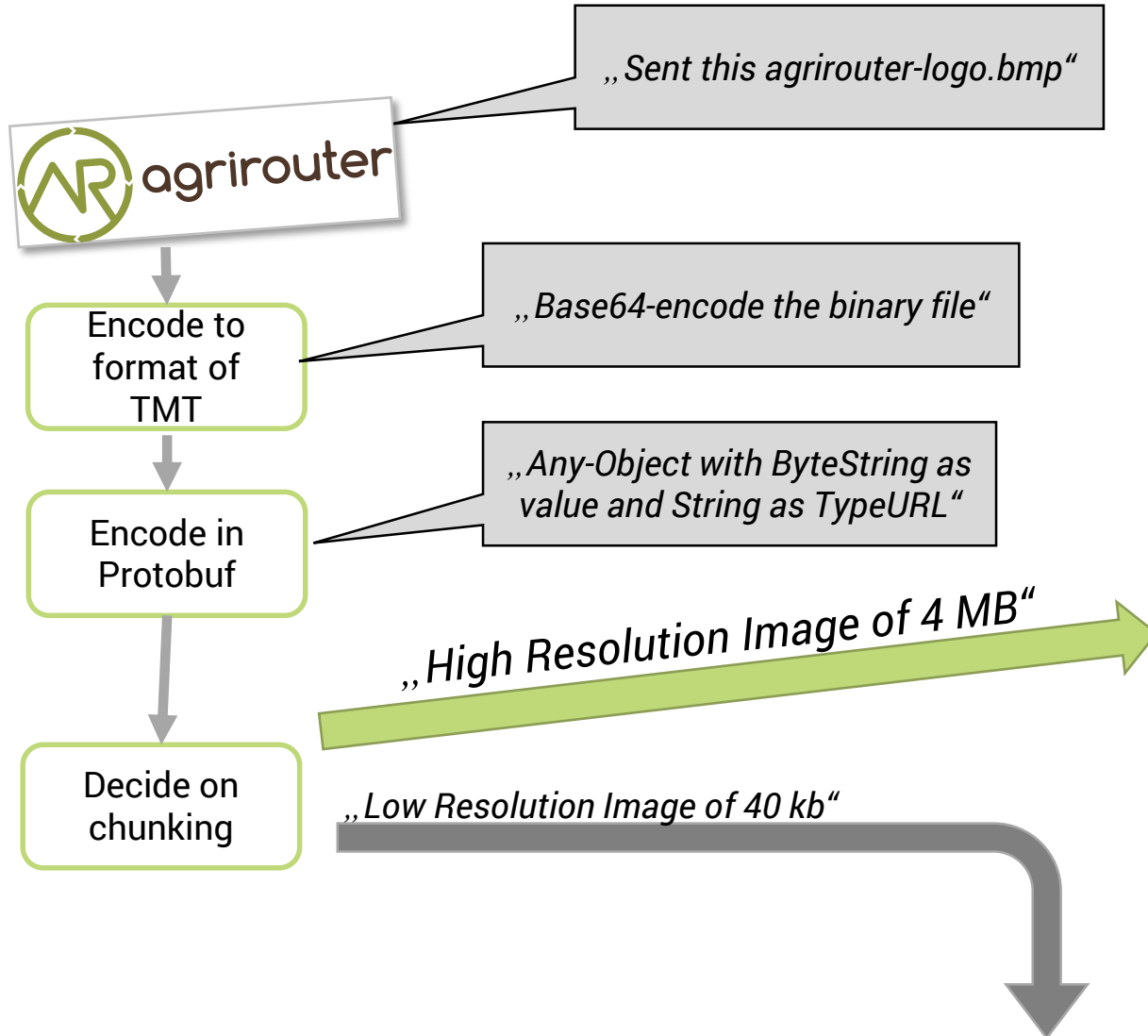
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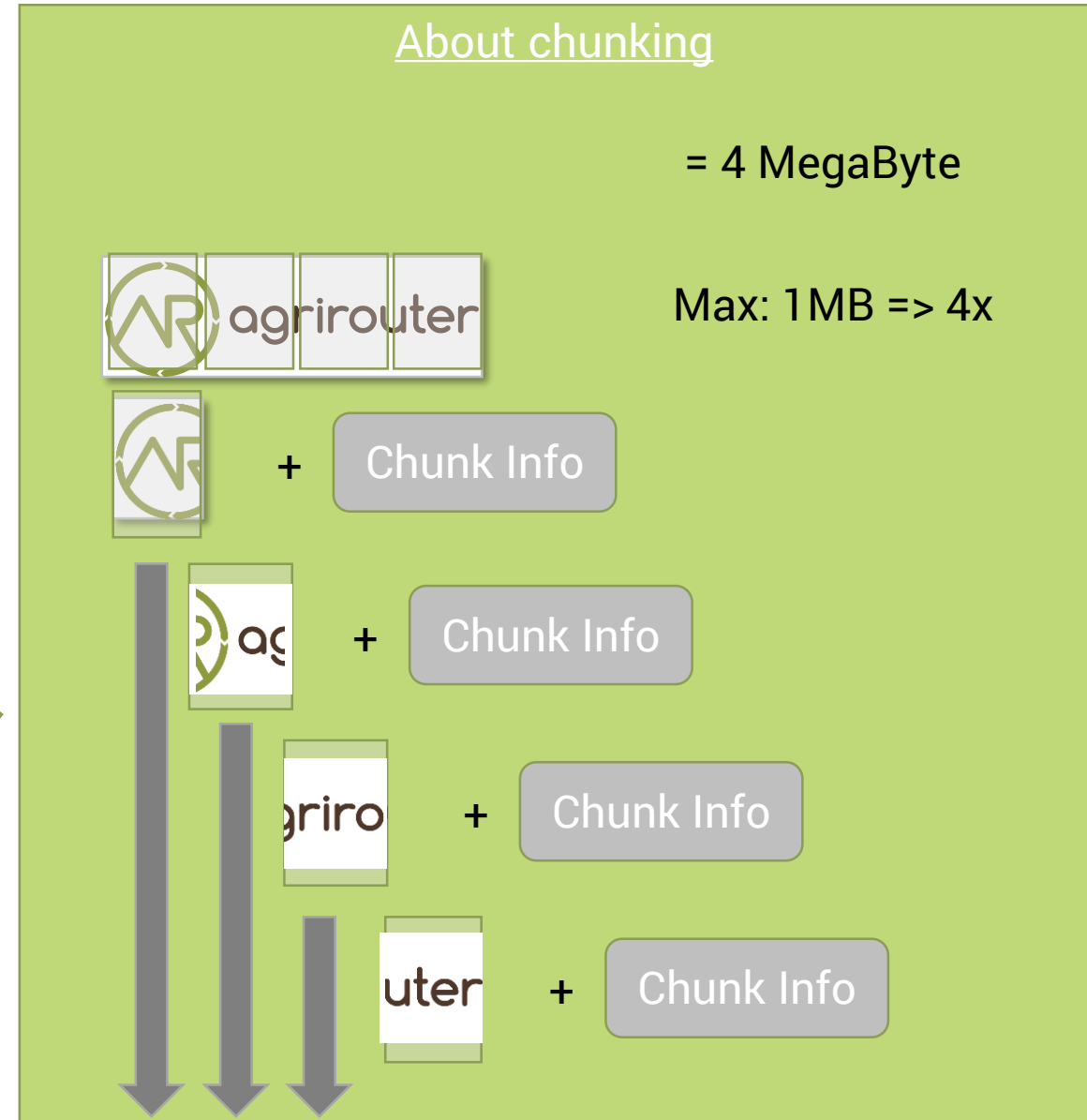
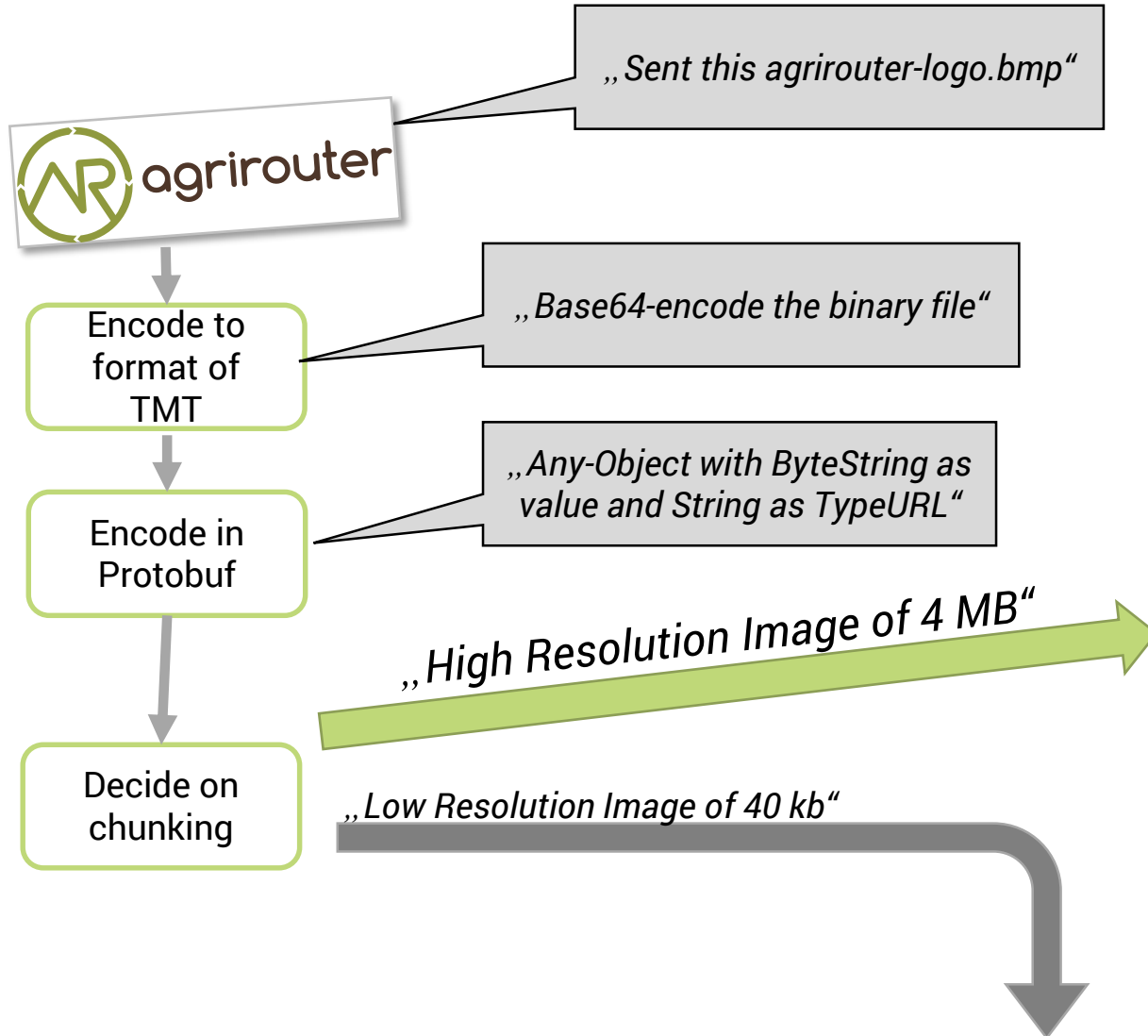
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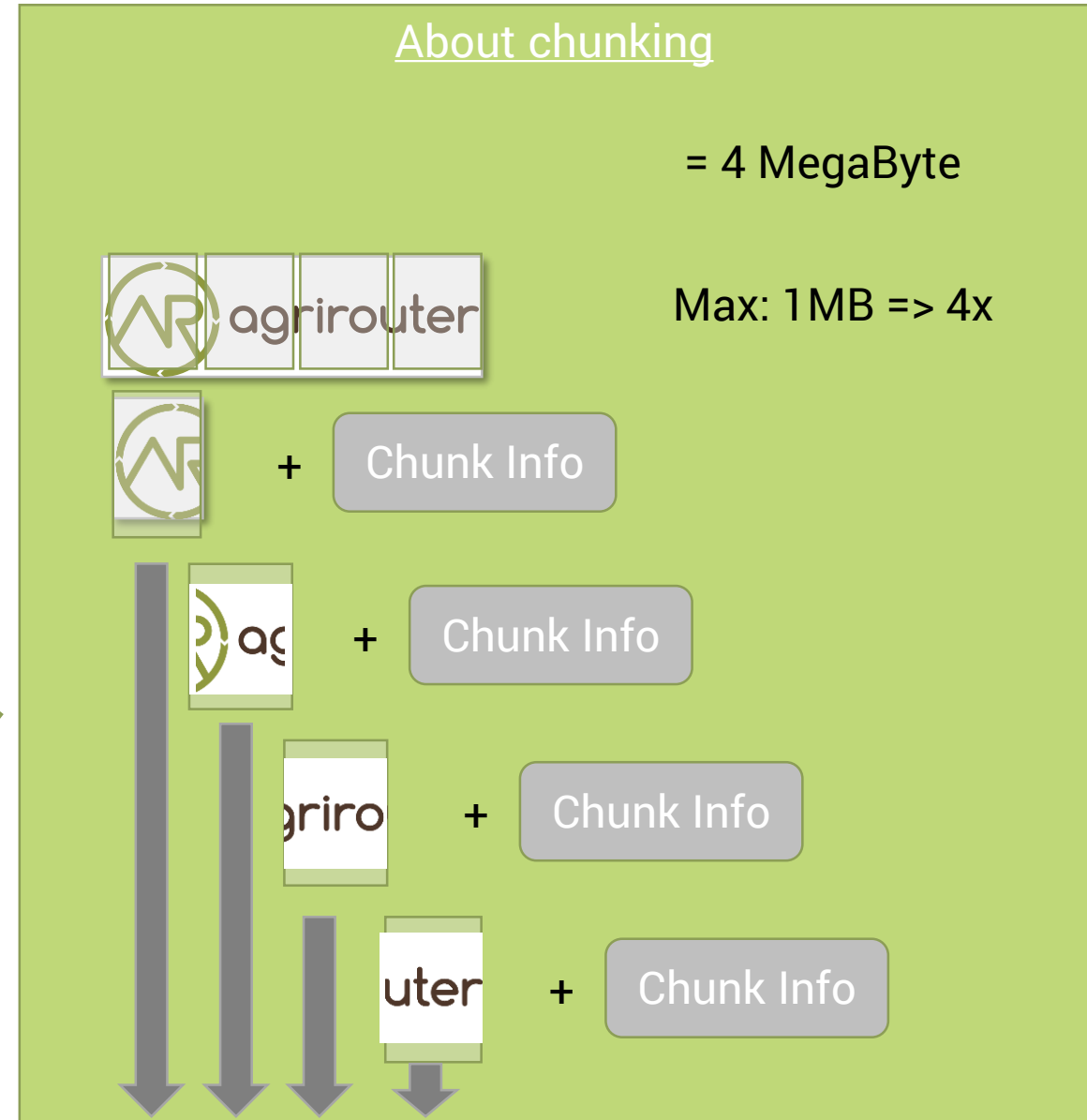
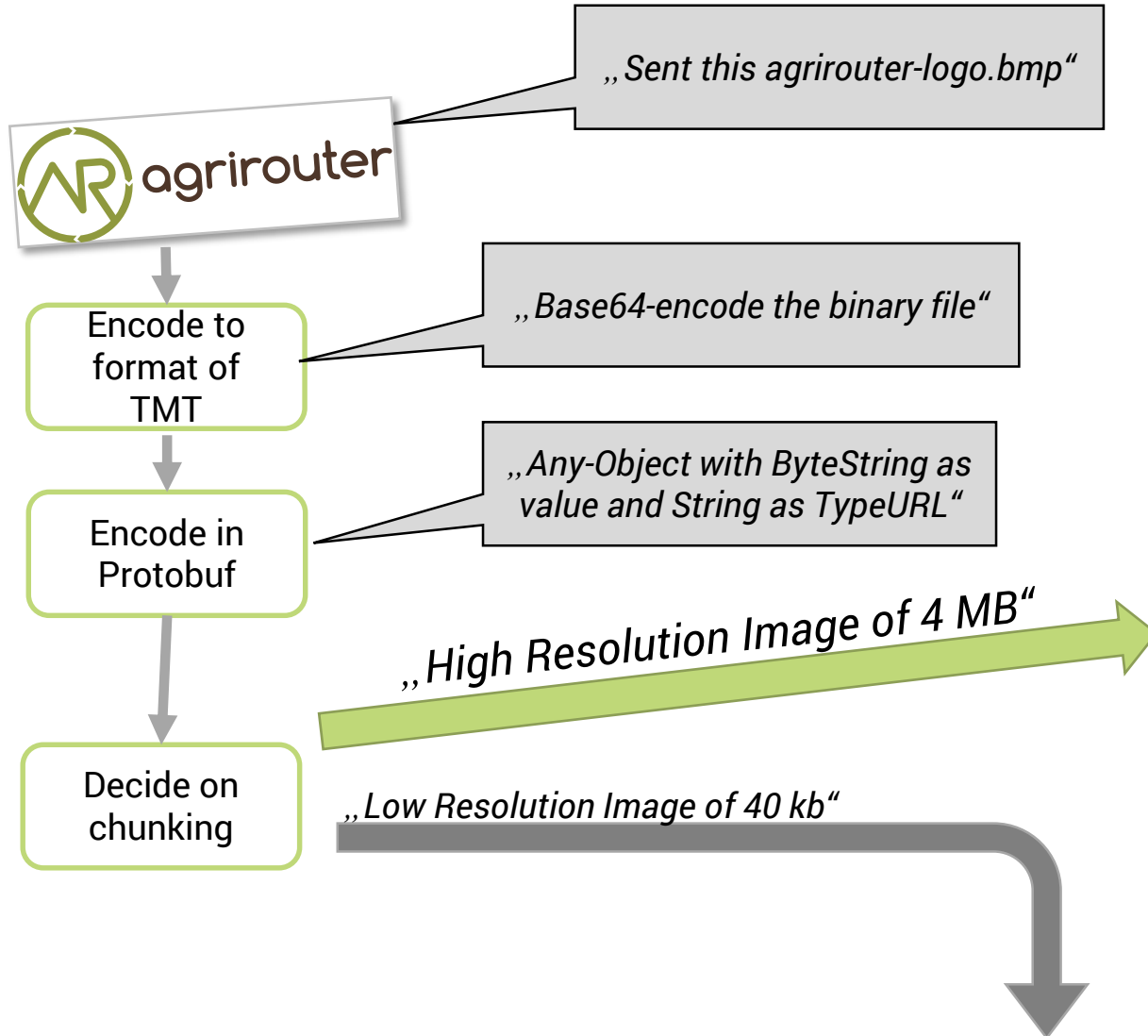
Building a message (1)



Building a message (1)



Building a message (1)




Building a message (2)

Message



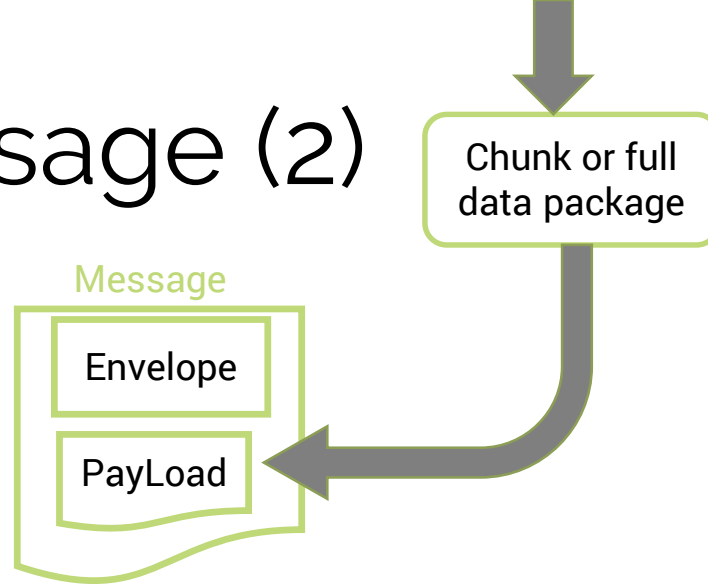
Building a message (2)

Message

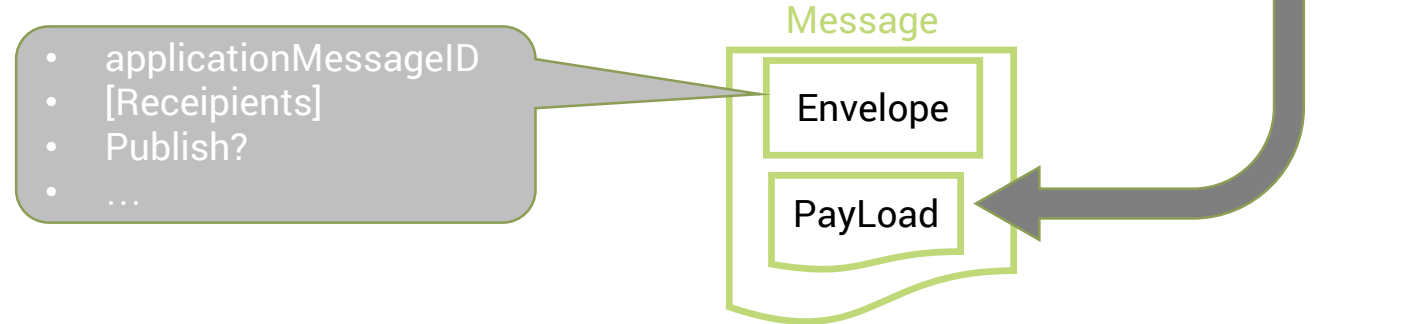


Chunk or full
data package

Building a message (2)



Building a message (2)



Building a message (2)

- applicationMessageID
- [Receipients]
- Publish?
- ...

Message

Envelope

PayLoad

Chunk or full
data package

Exception:

Native Protobuf Communication

Base64

Building a message (2)

- applicationMessageID
- [Receipients]
- Publish?
- ...

Message

Envelope

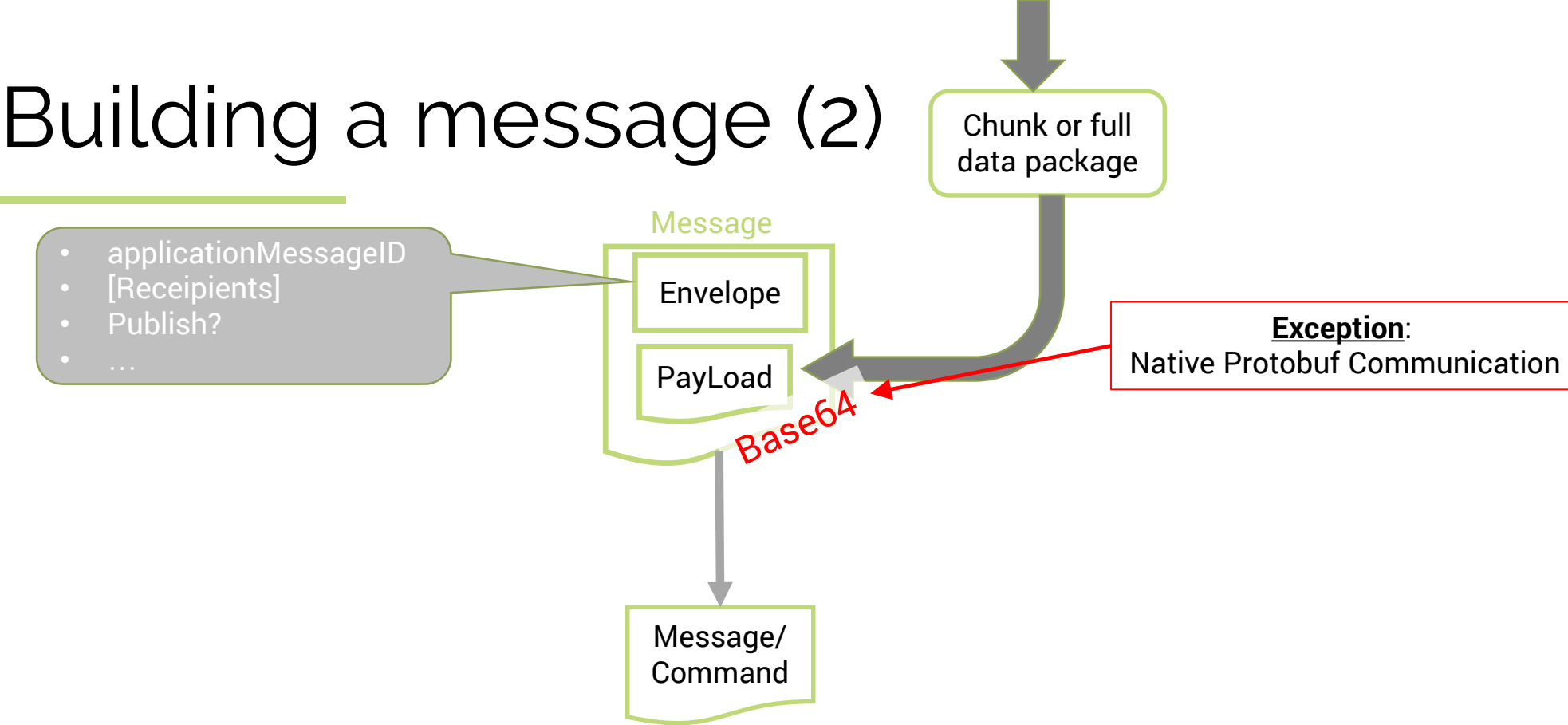
PayLoad

Base64

Message/
Command

Chunk or full
data package

Exception:
Native Protobuf Communication



Building a message (2)

- applicationMessageID
- [Receipients]
- Publish?
- ...

Timestamp

Message

Envelope

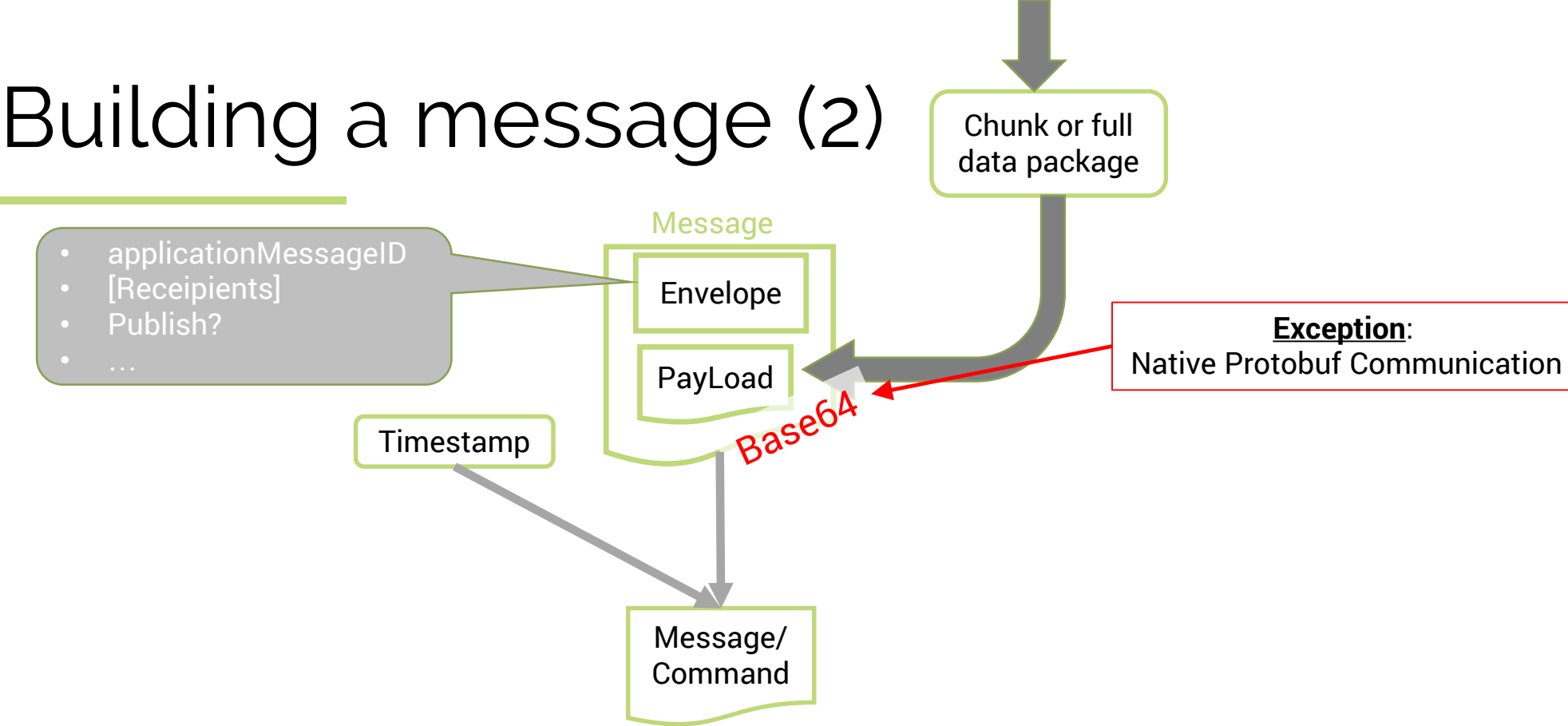
PayLoad

Base64

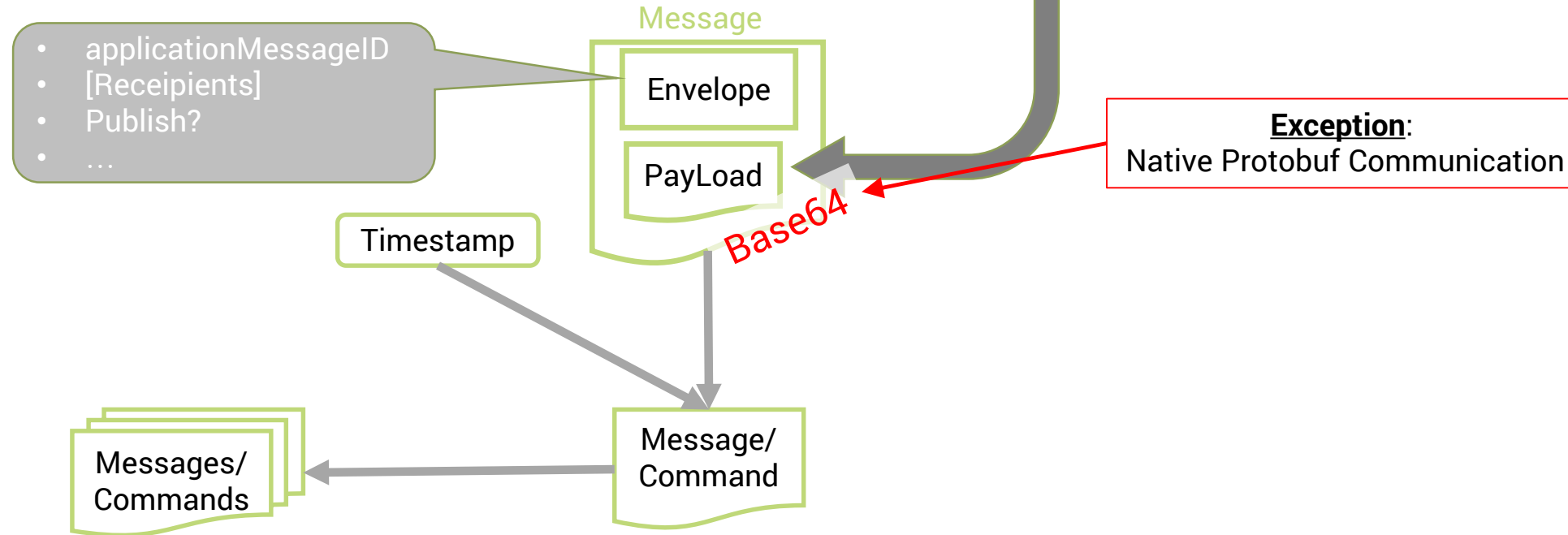
Message/
Command

Chunk or full
data package

Exception:
Native Protobuf Communication

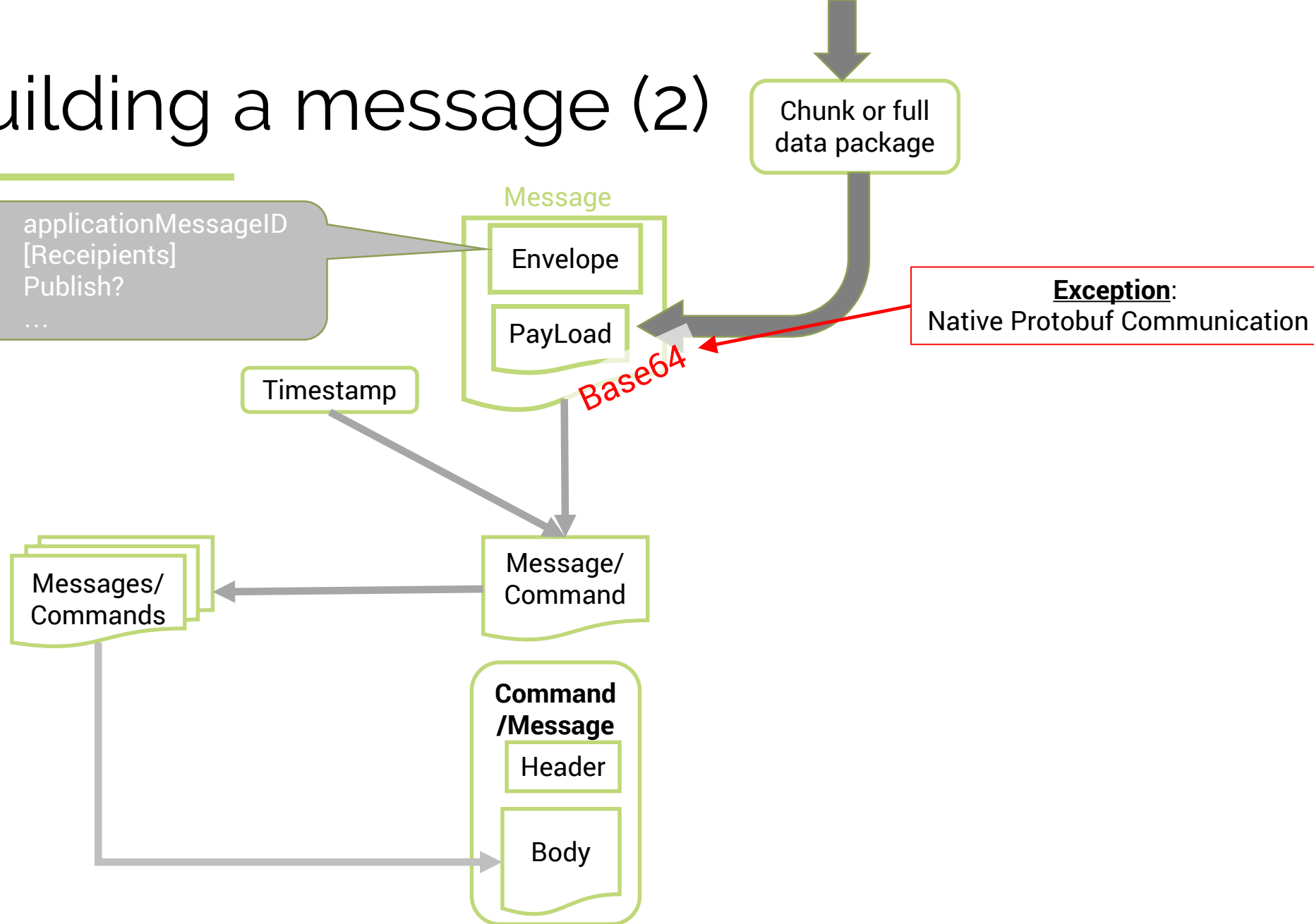


Building a message (2)

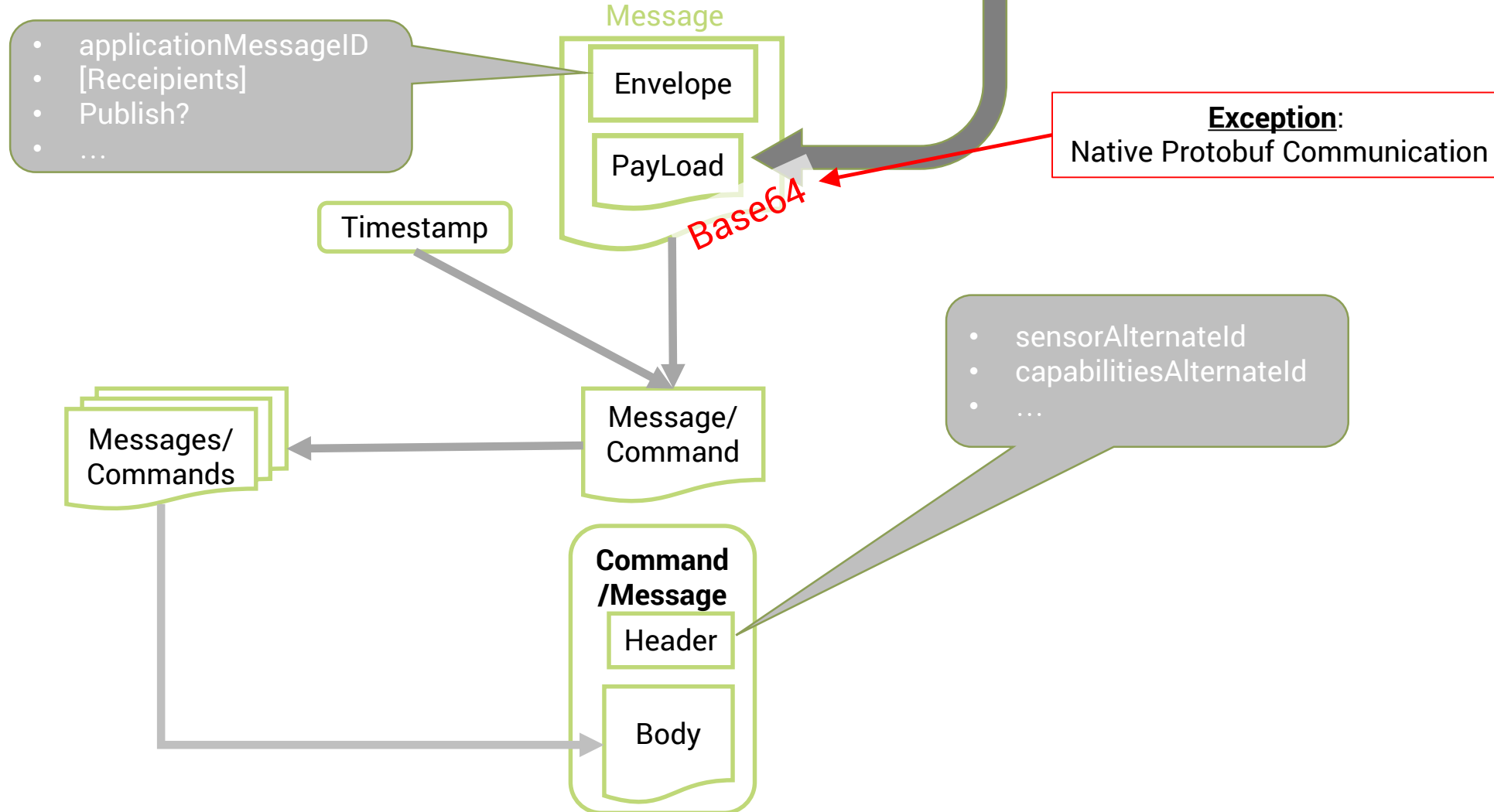


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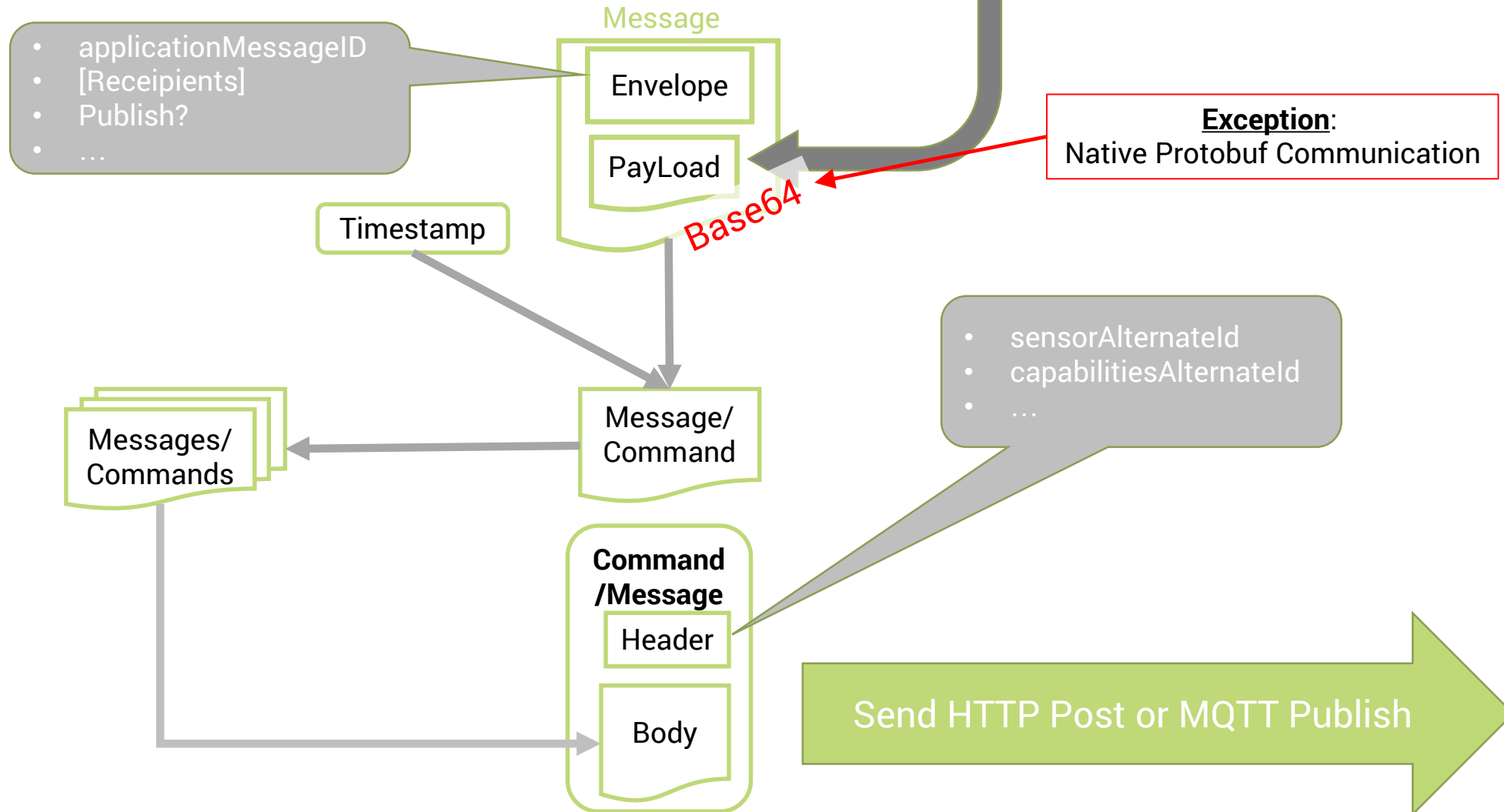
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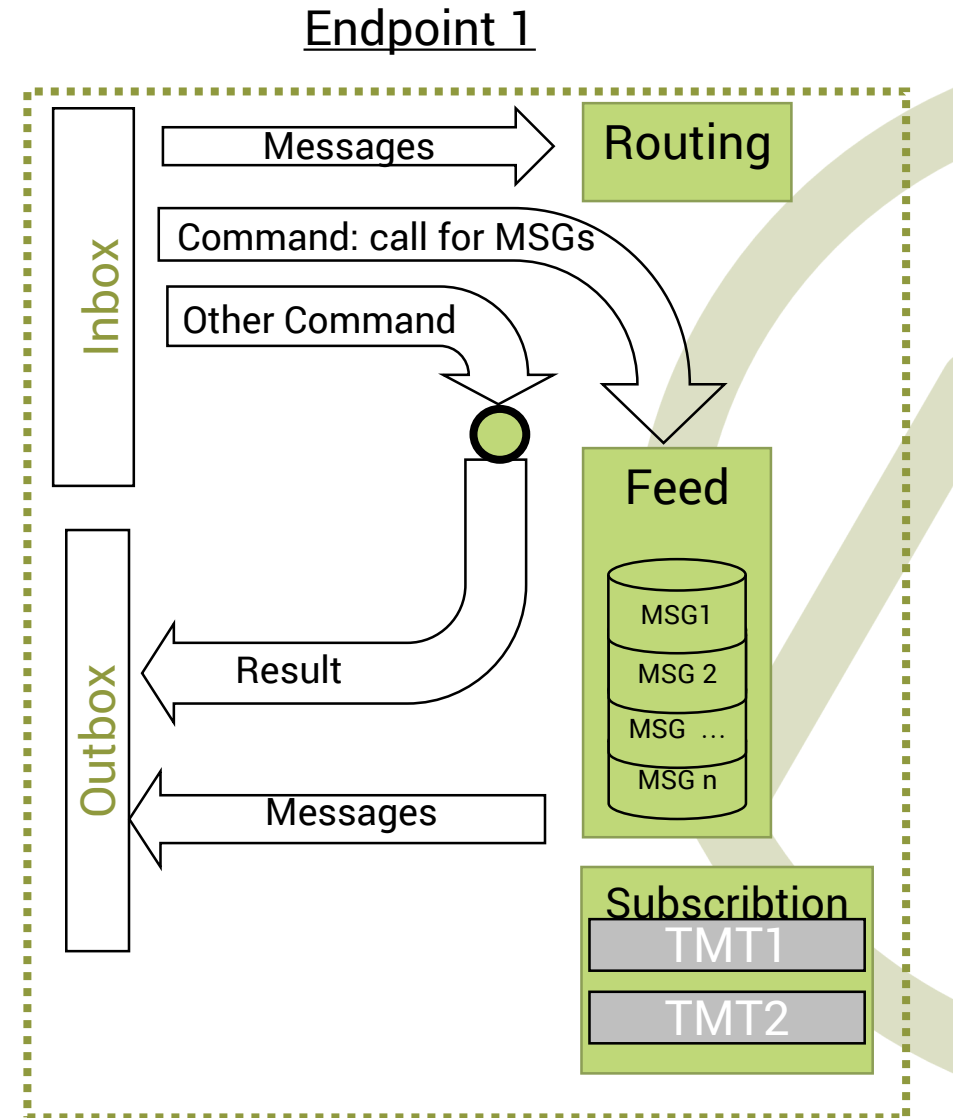
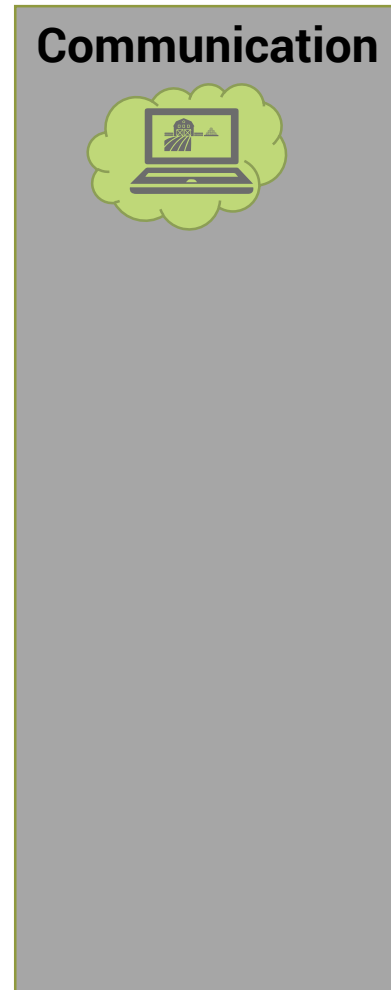
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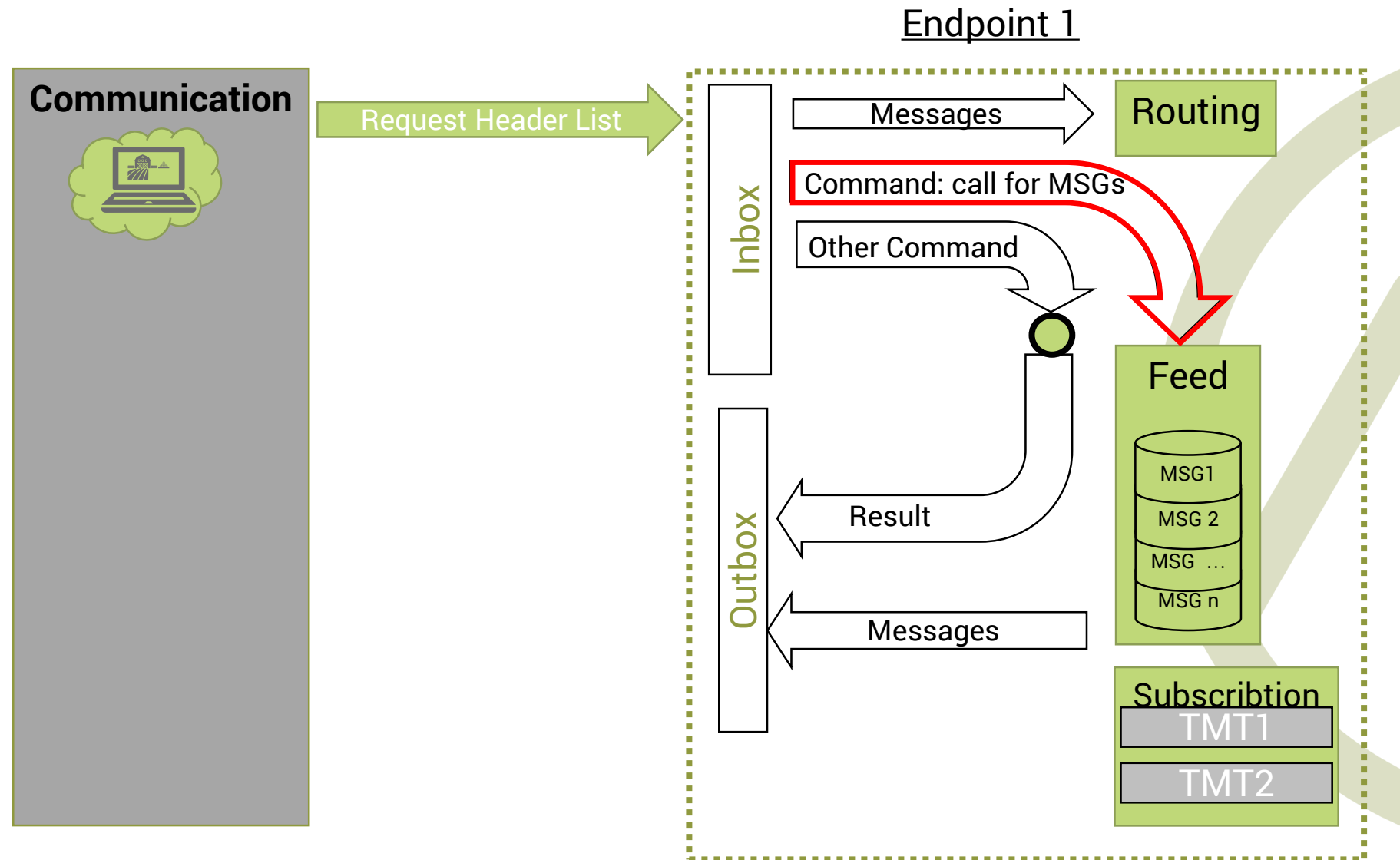
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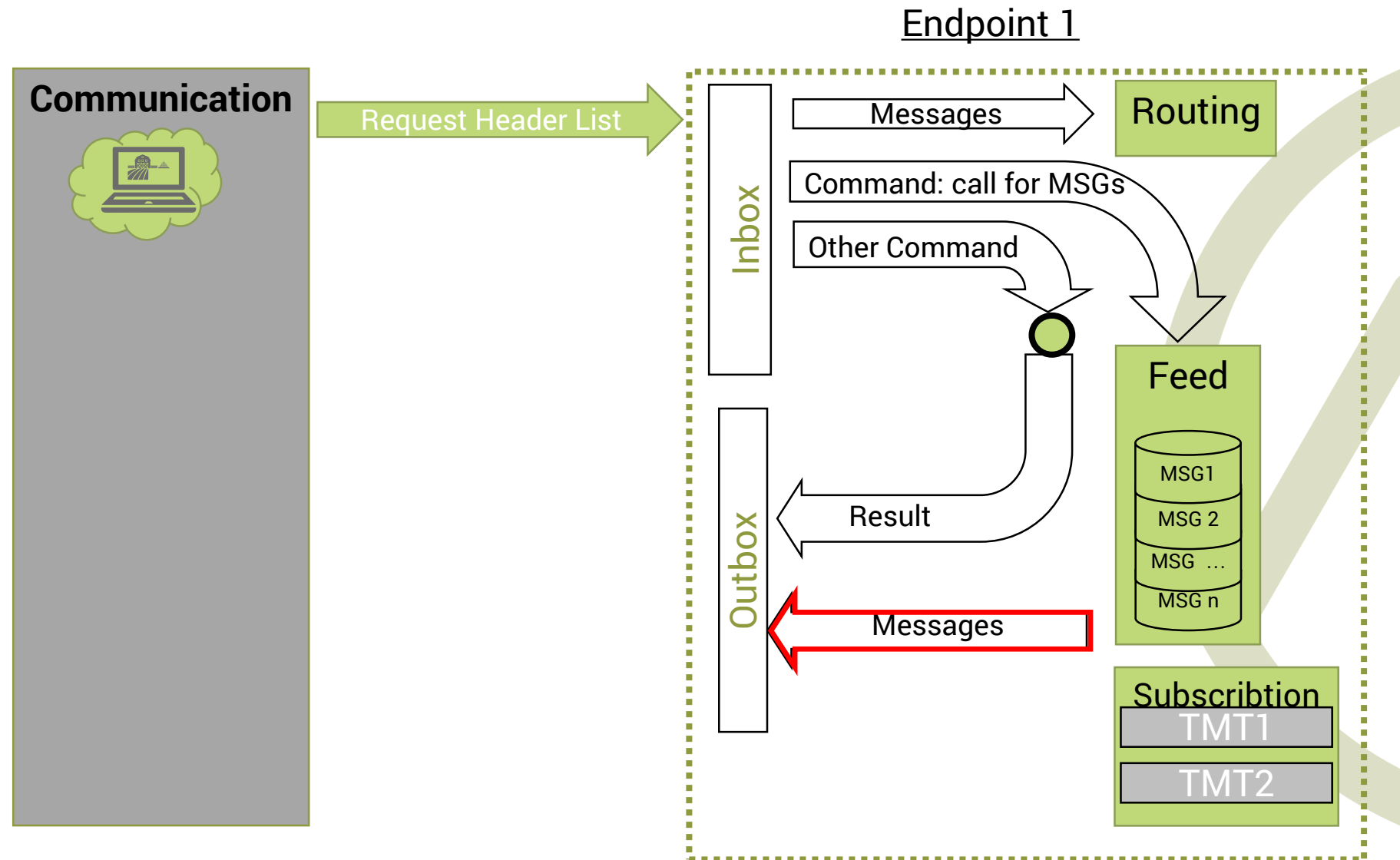
Receive and analyse messages



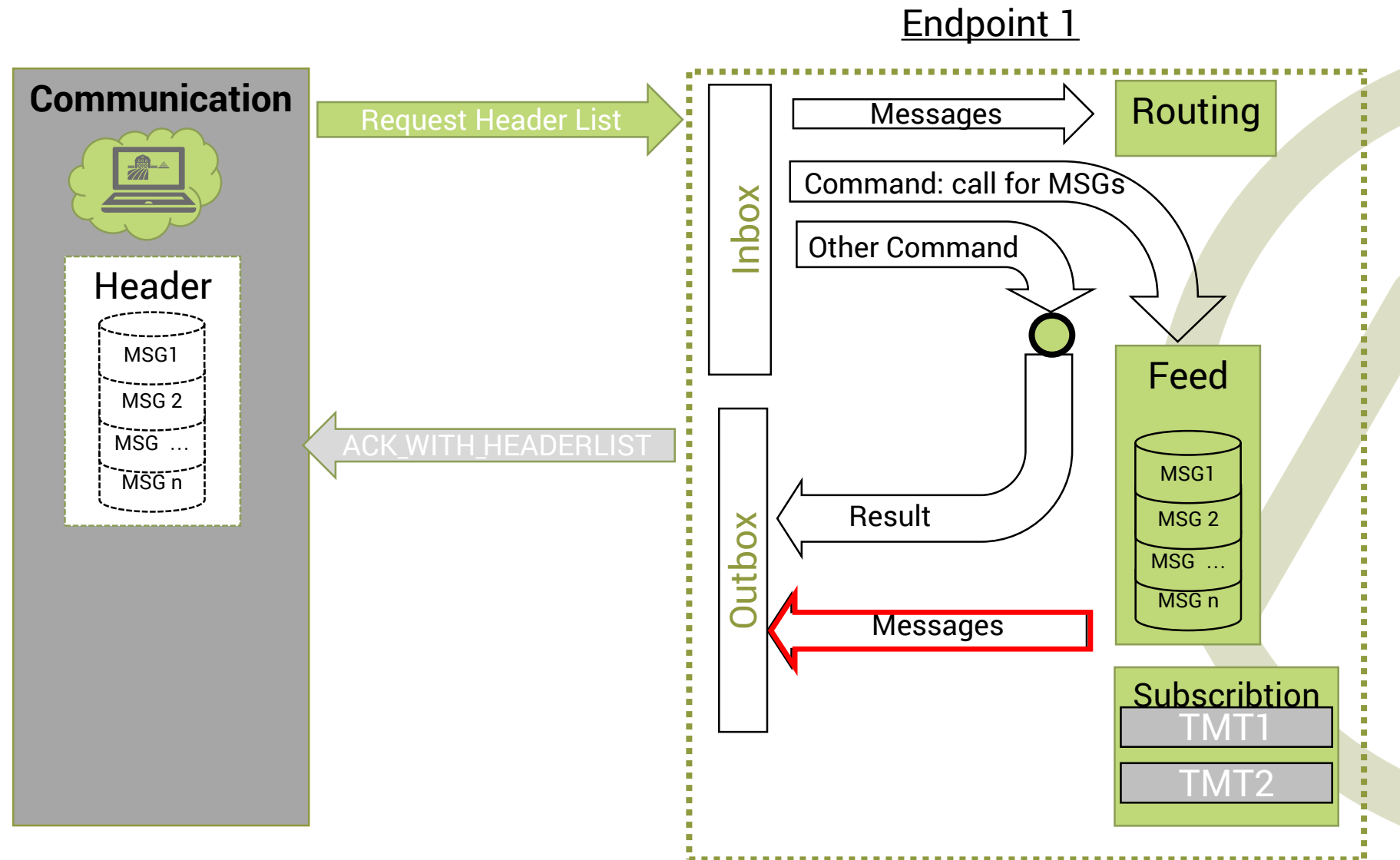
Receive and analyse messages



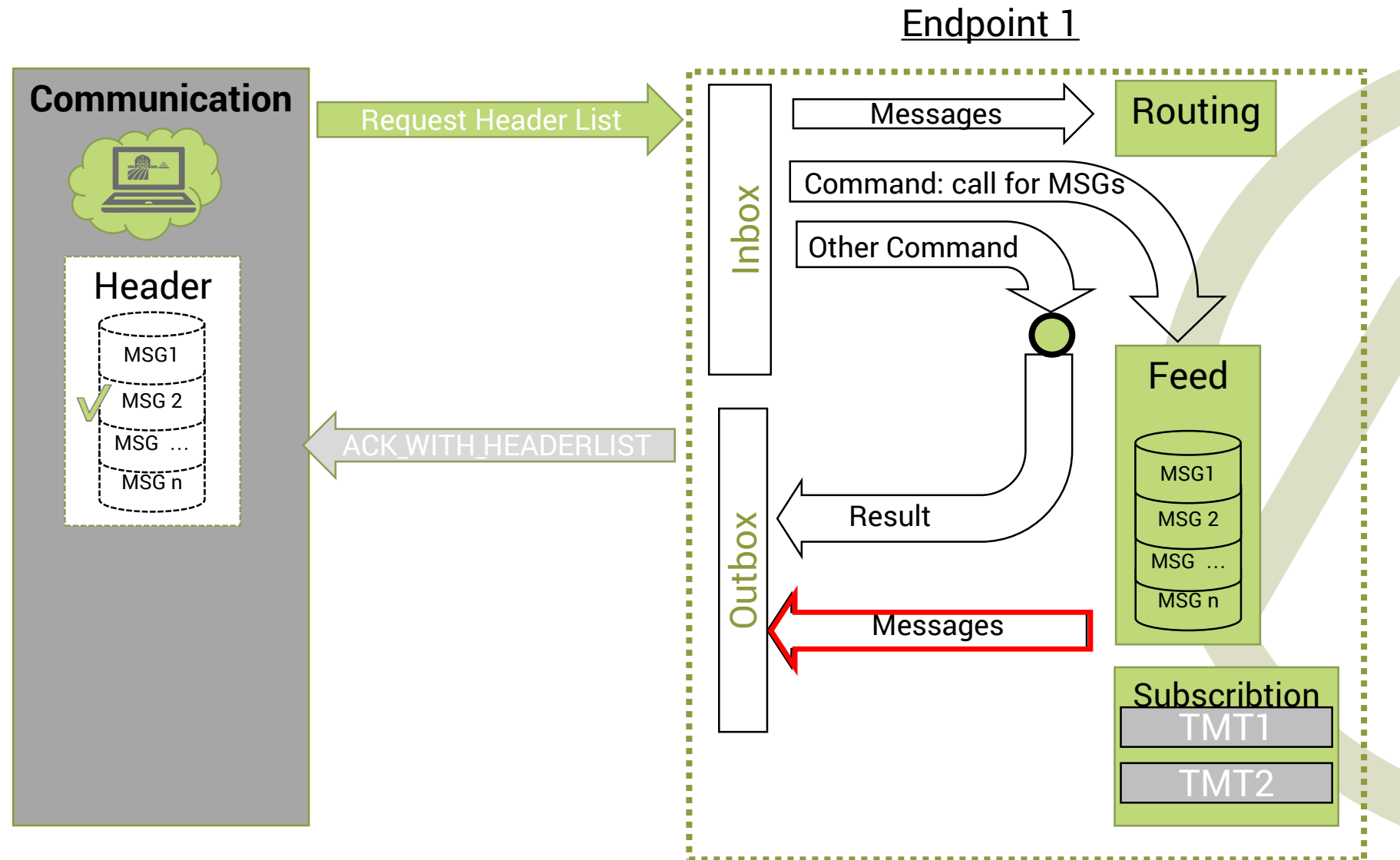
Receive and analyse messages



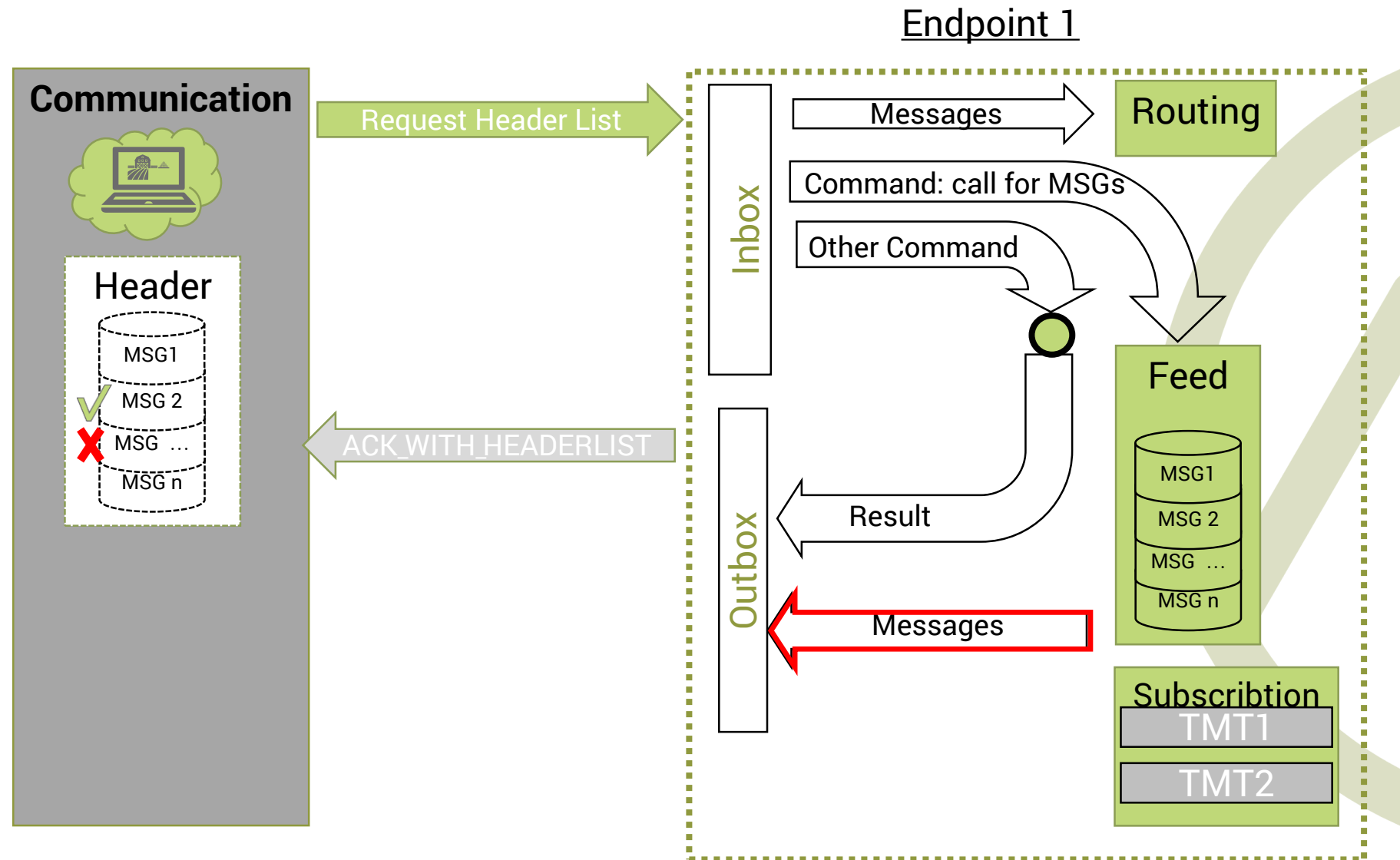
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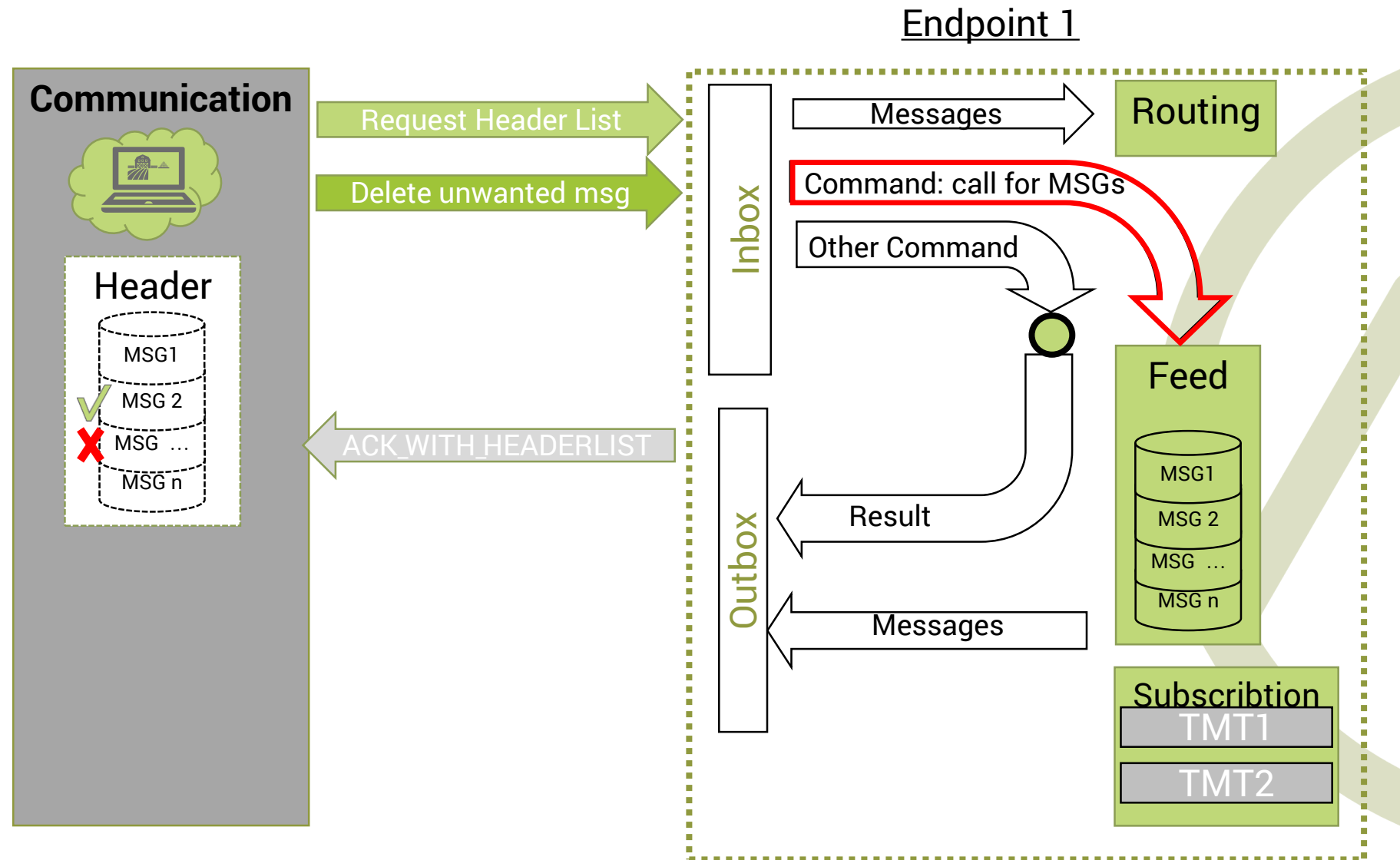
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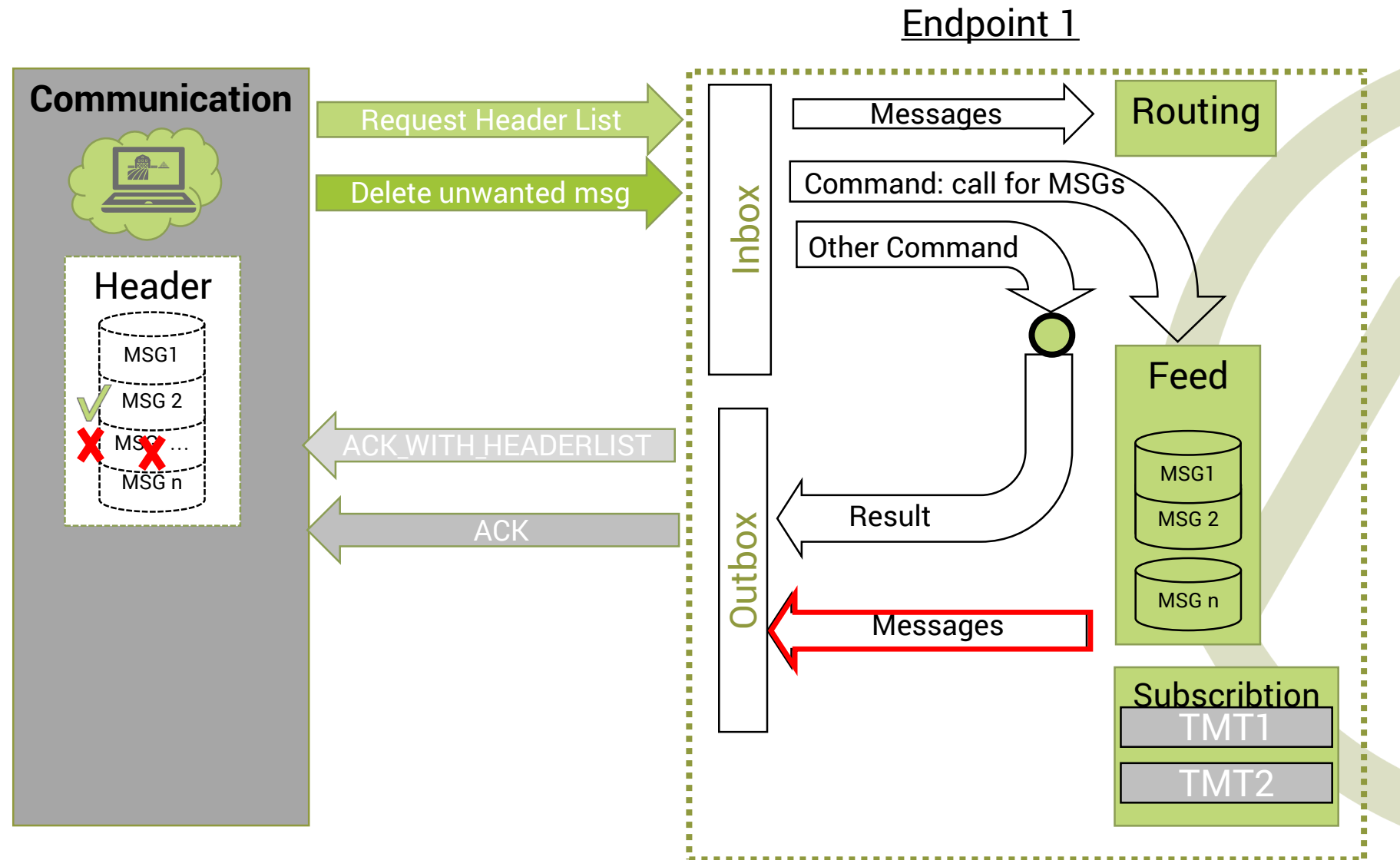
Receive and analyse messages



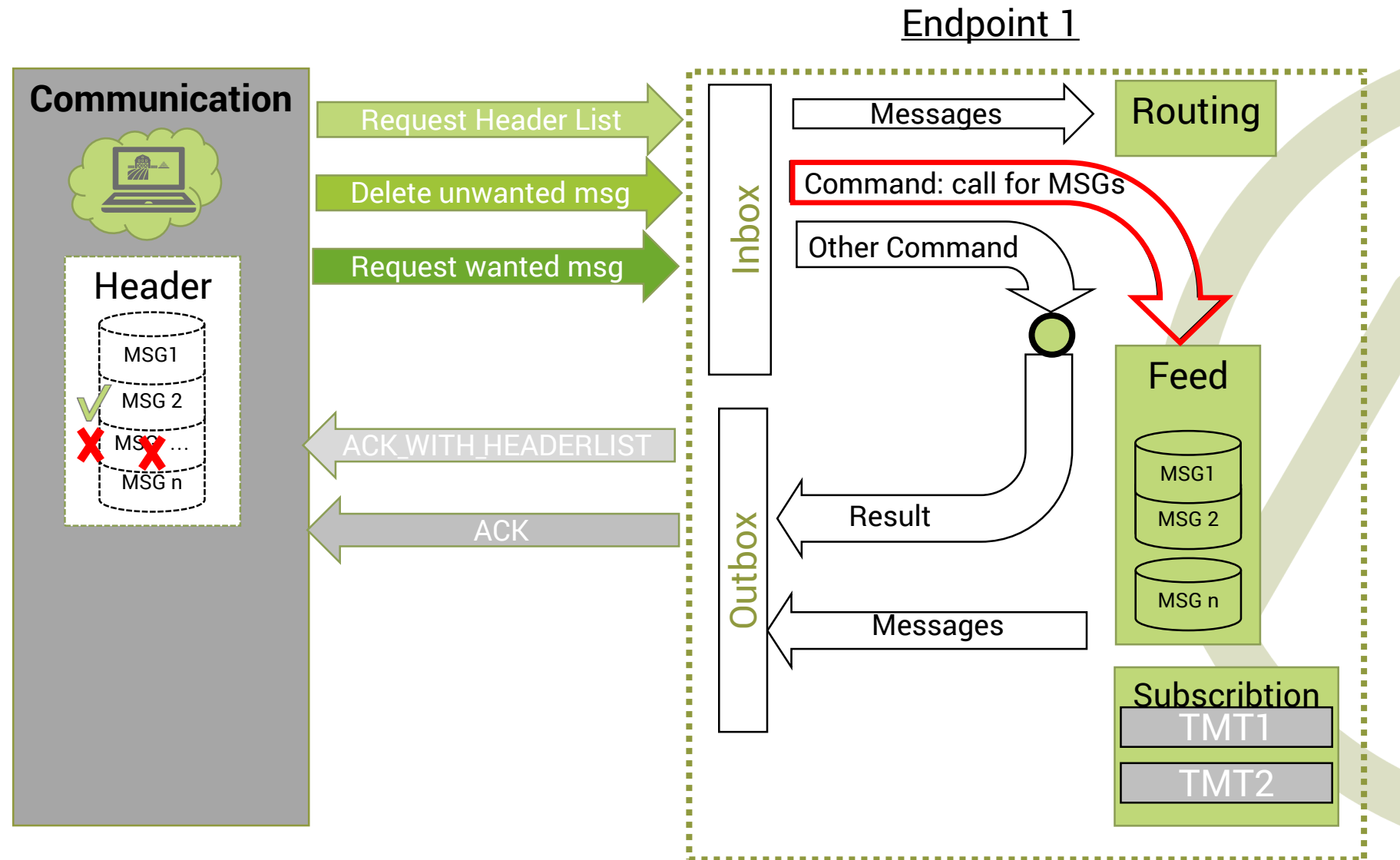
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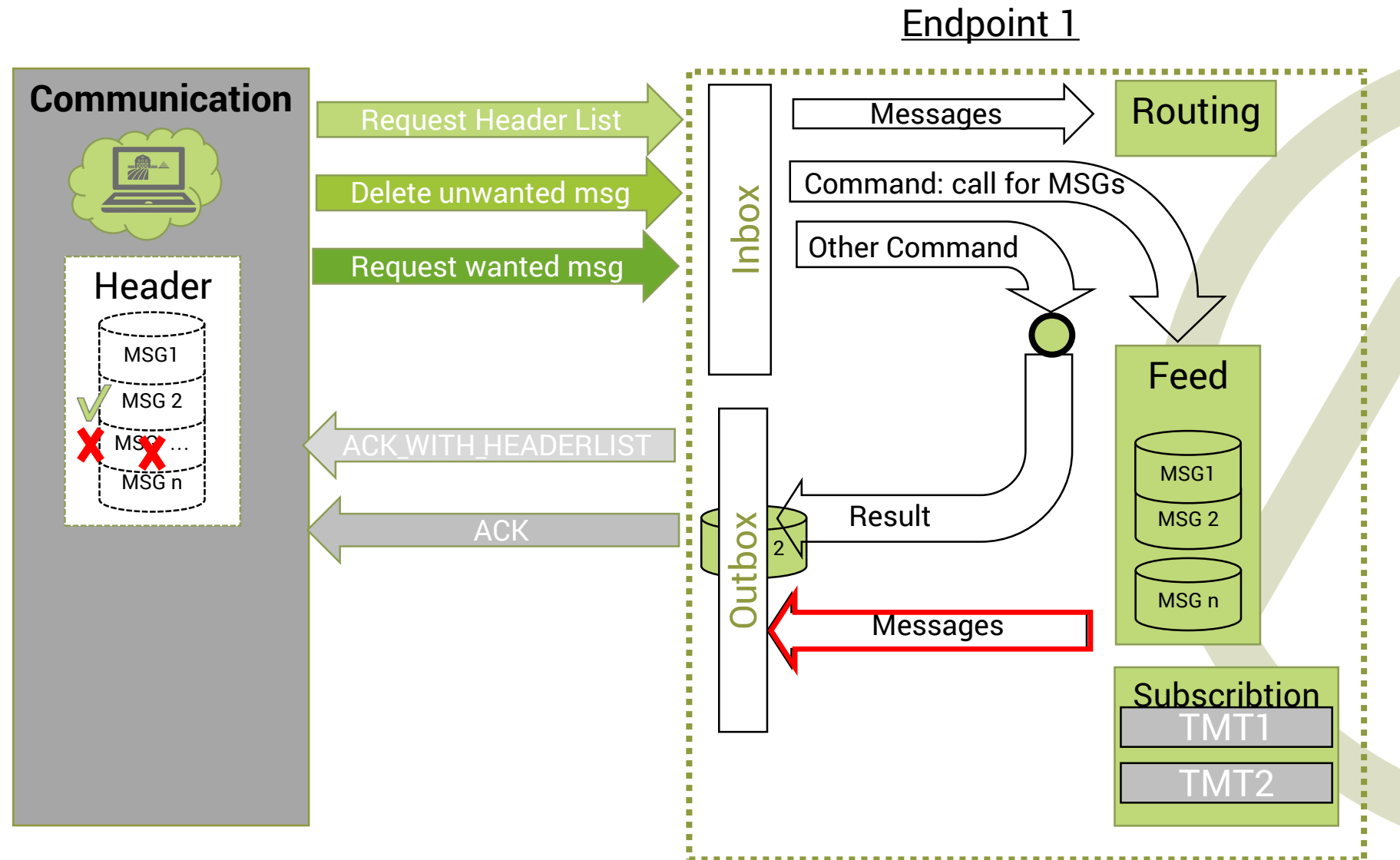
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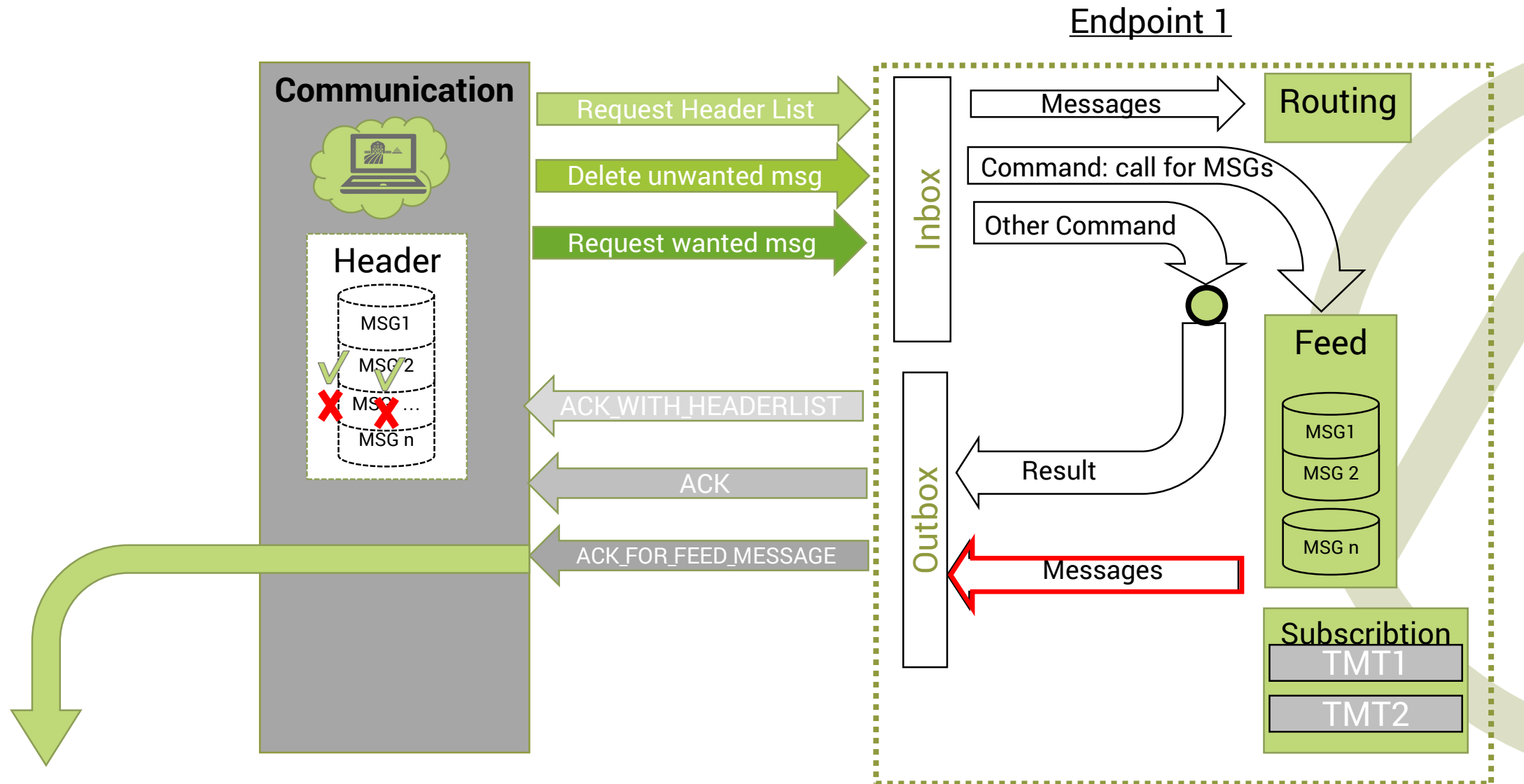
Receive and analyse messages



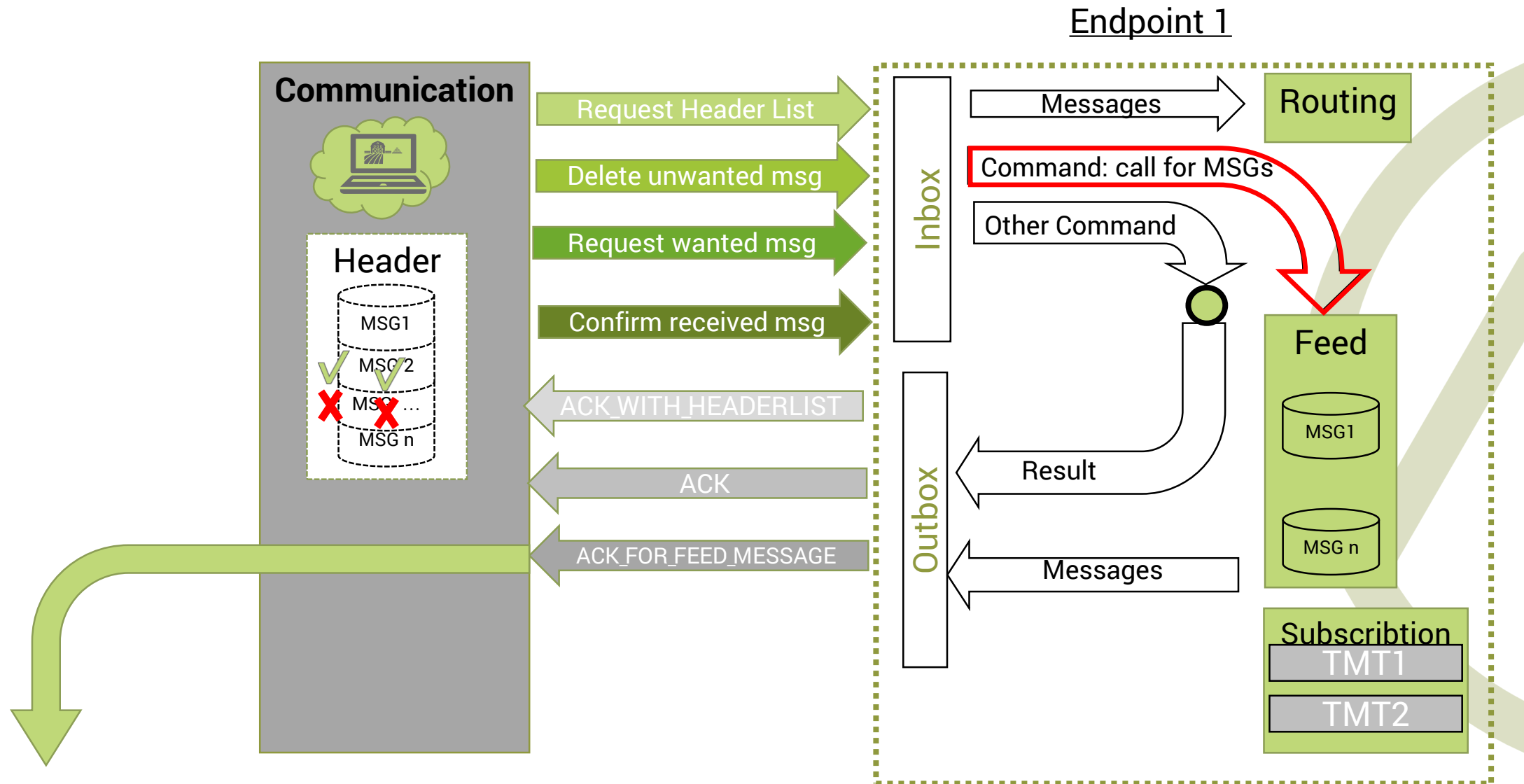
Receive and analyse messages



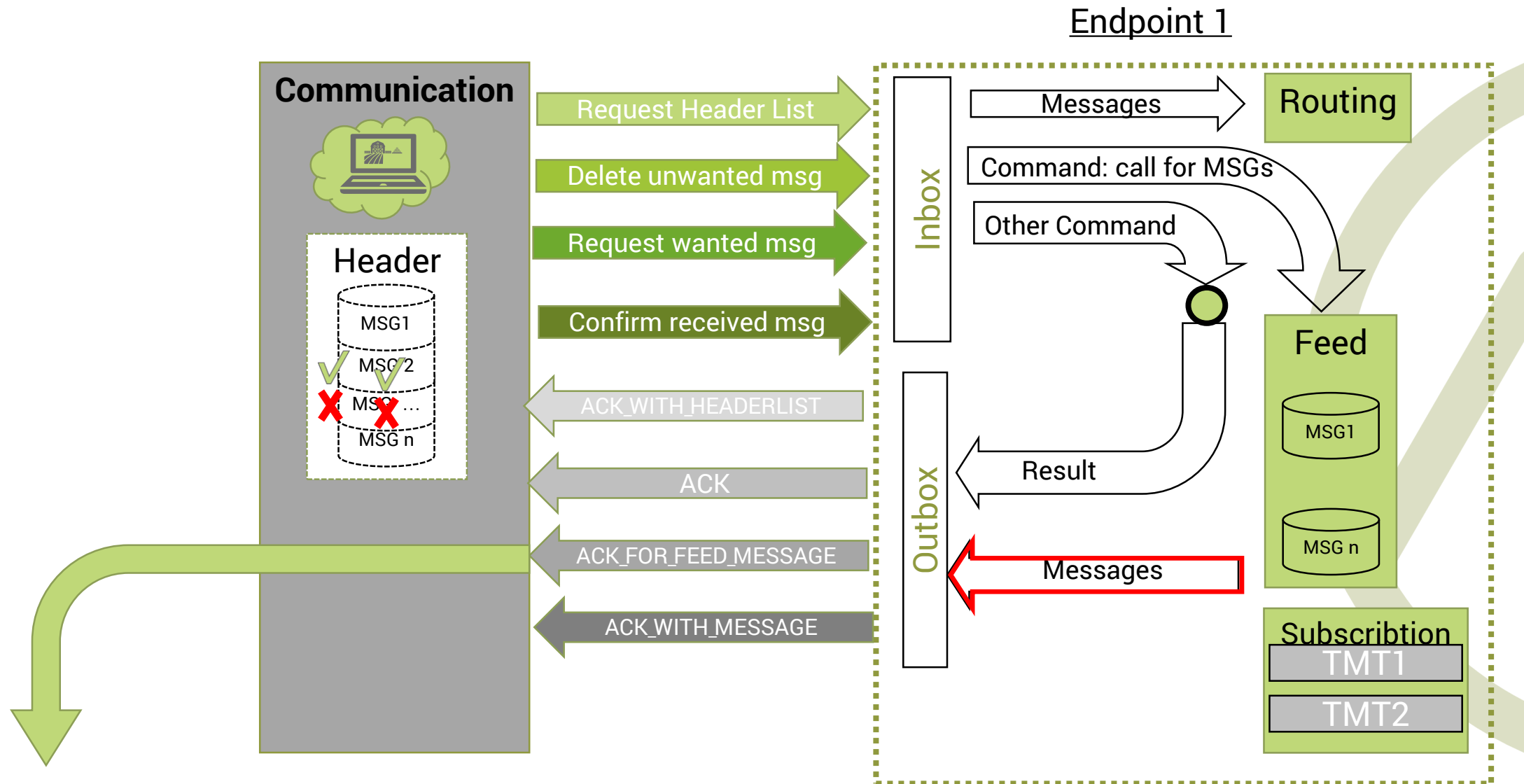
Receive and analyse messages



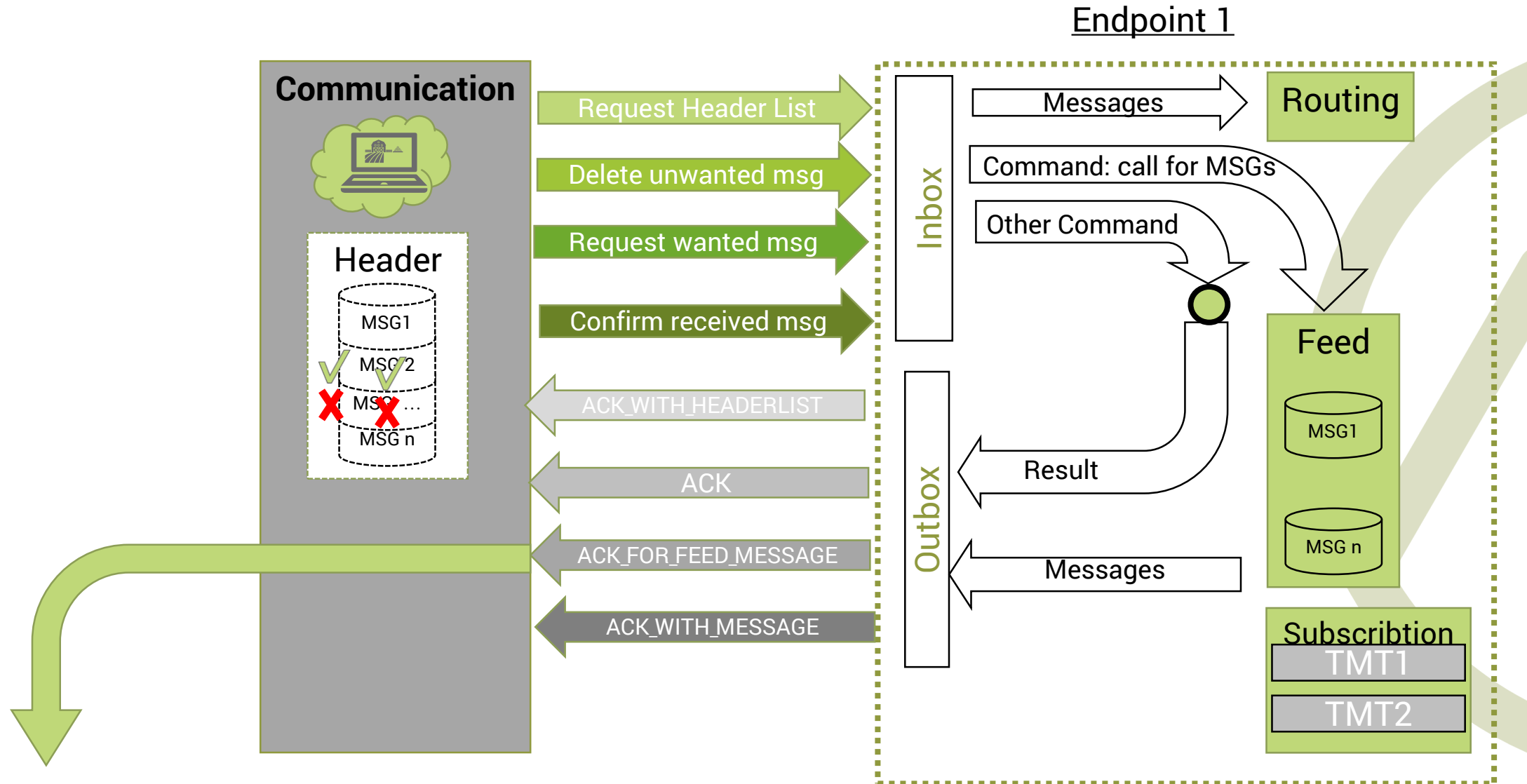
Receive and analyse messages



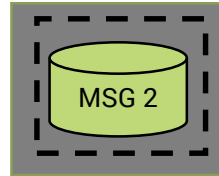
Receive and analyse messages



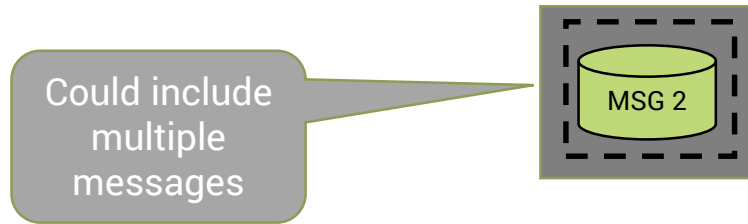
Receive and analyse messages



Analyse Messages and Commands



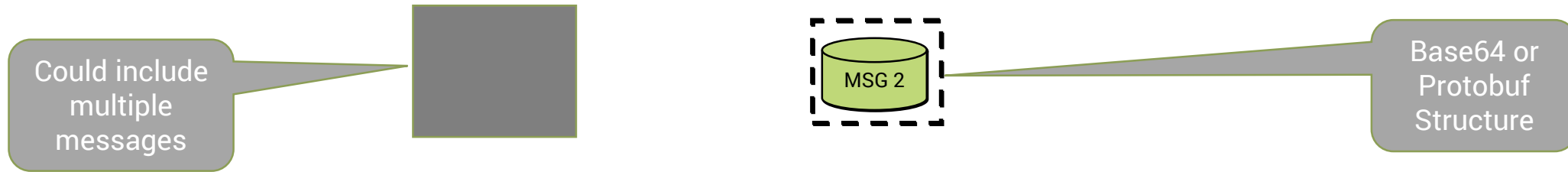
Analyse Messages and Commands



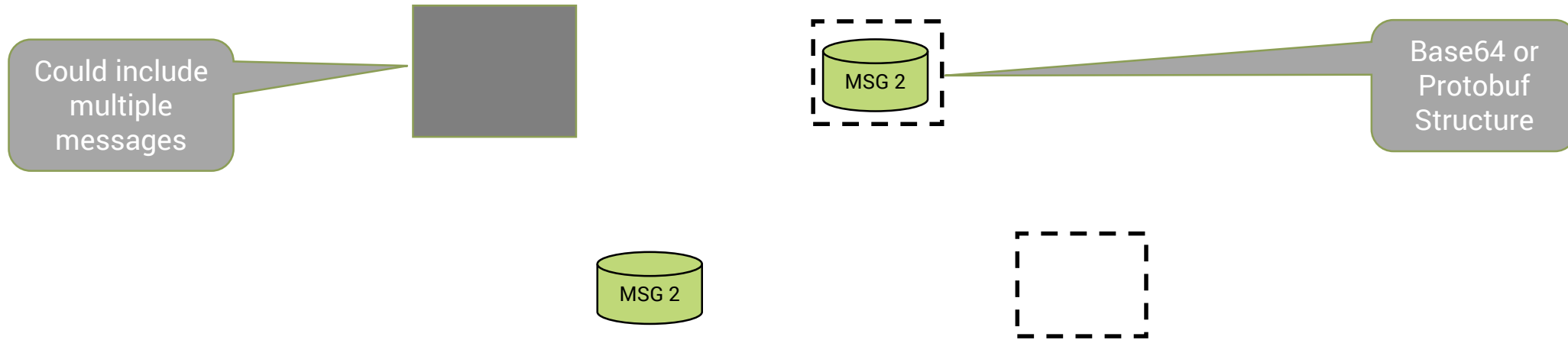
Analyse Messages and Commands



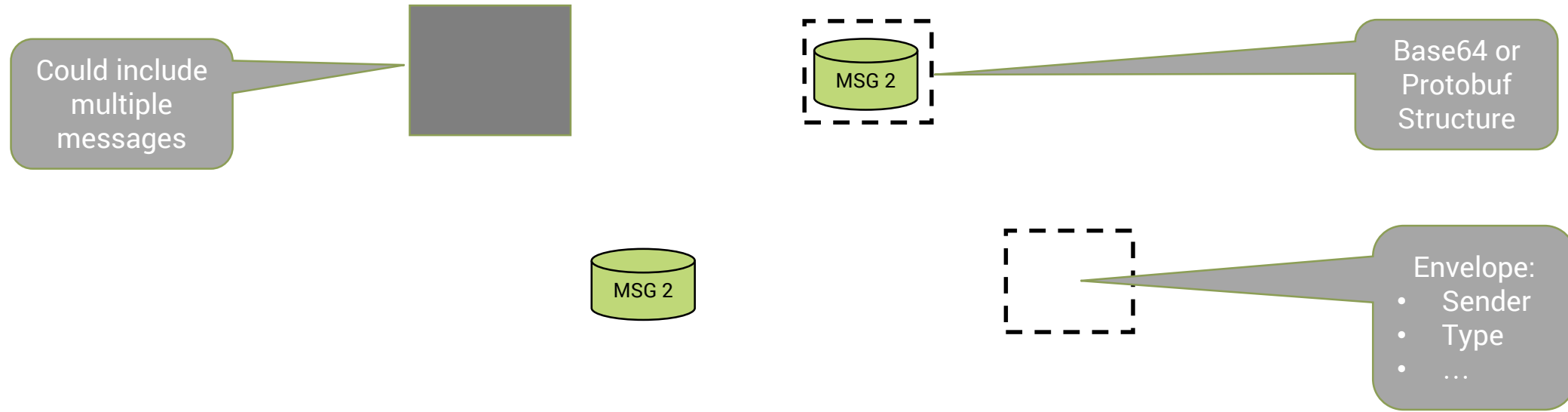
Analyse Messages and Commands



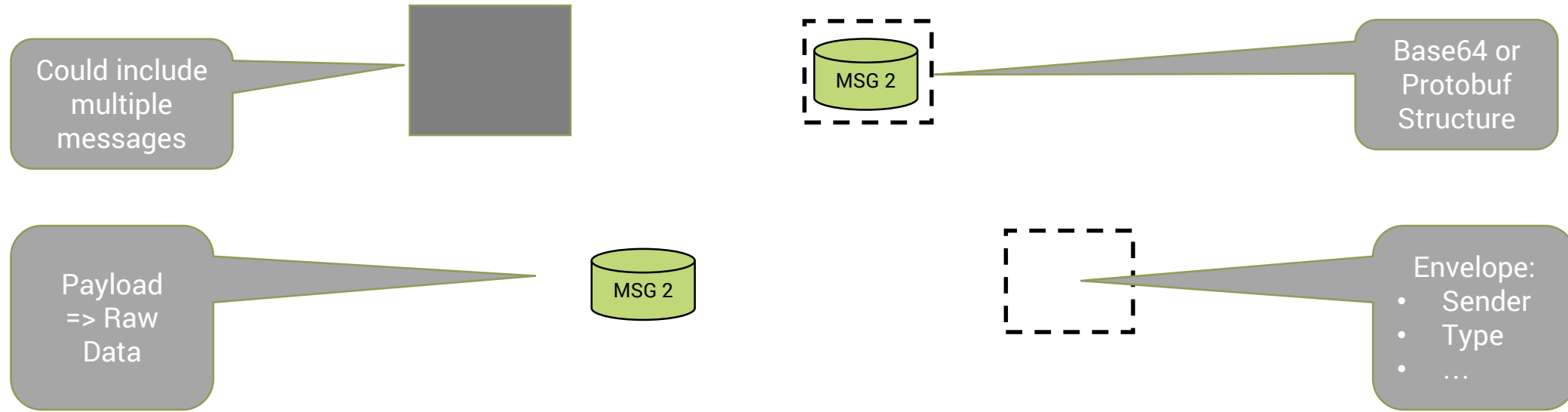
Analyse Messages and Commands



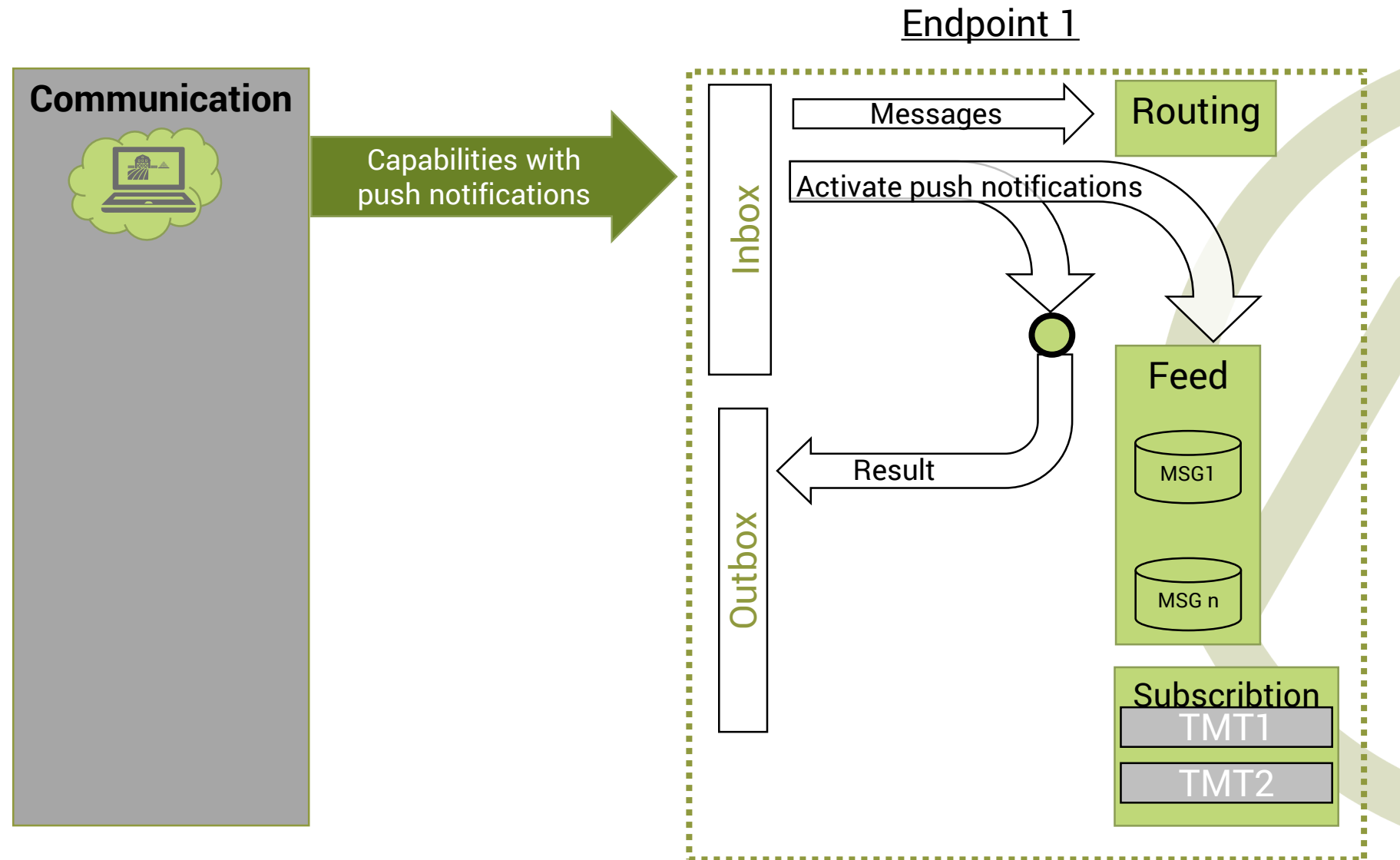
Analyse Messages and Commands



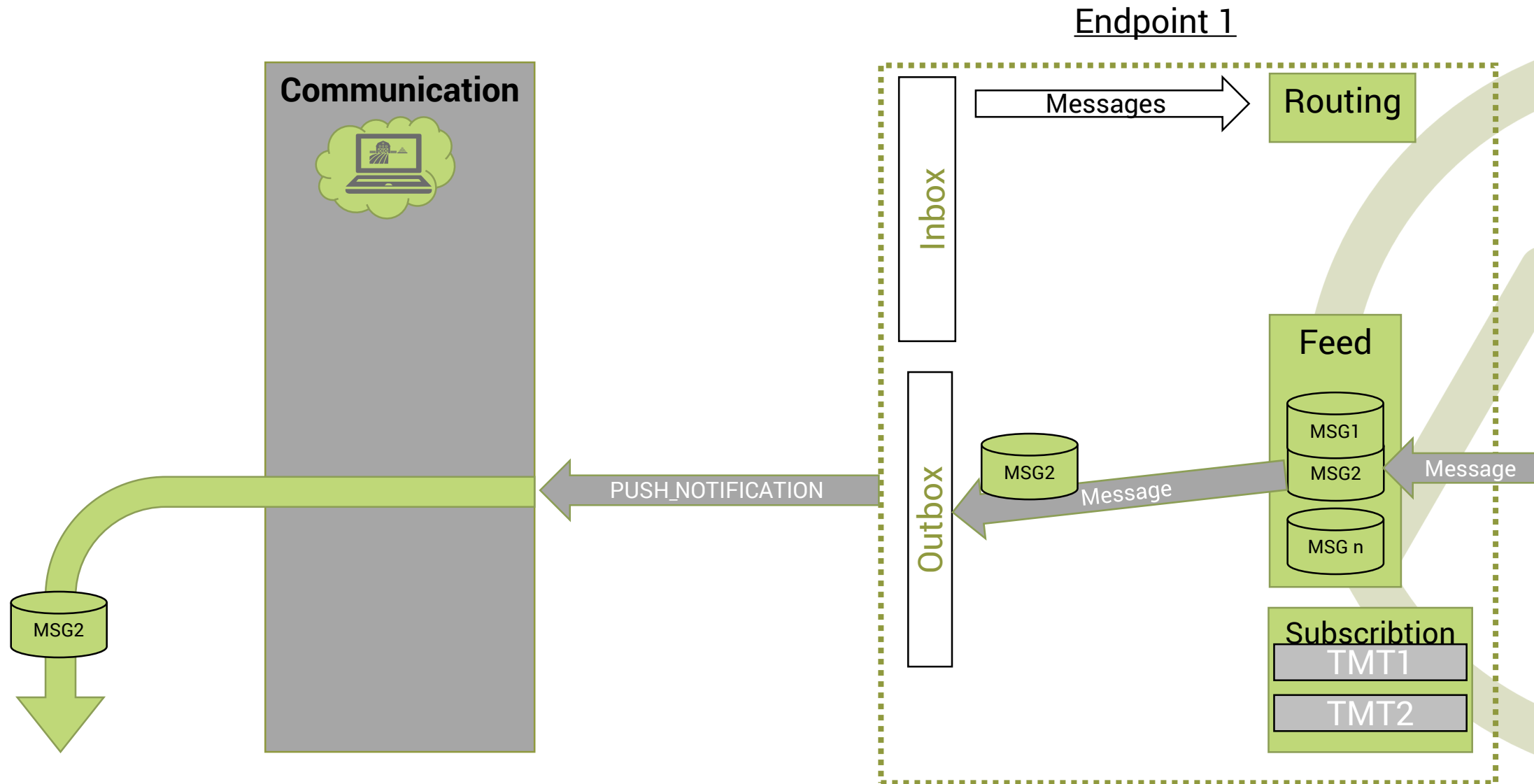
Analyse Messages and Commands



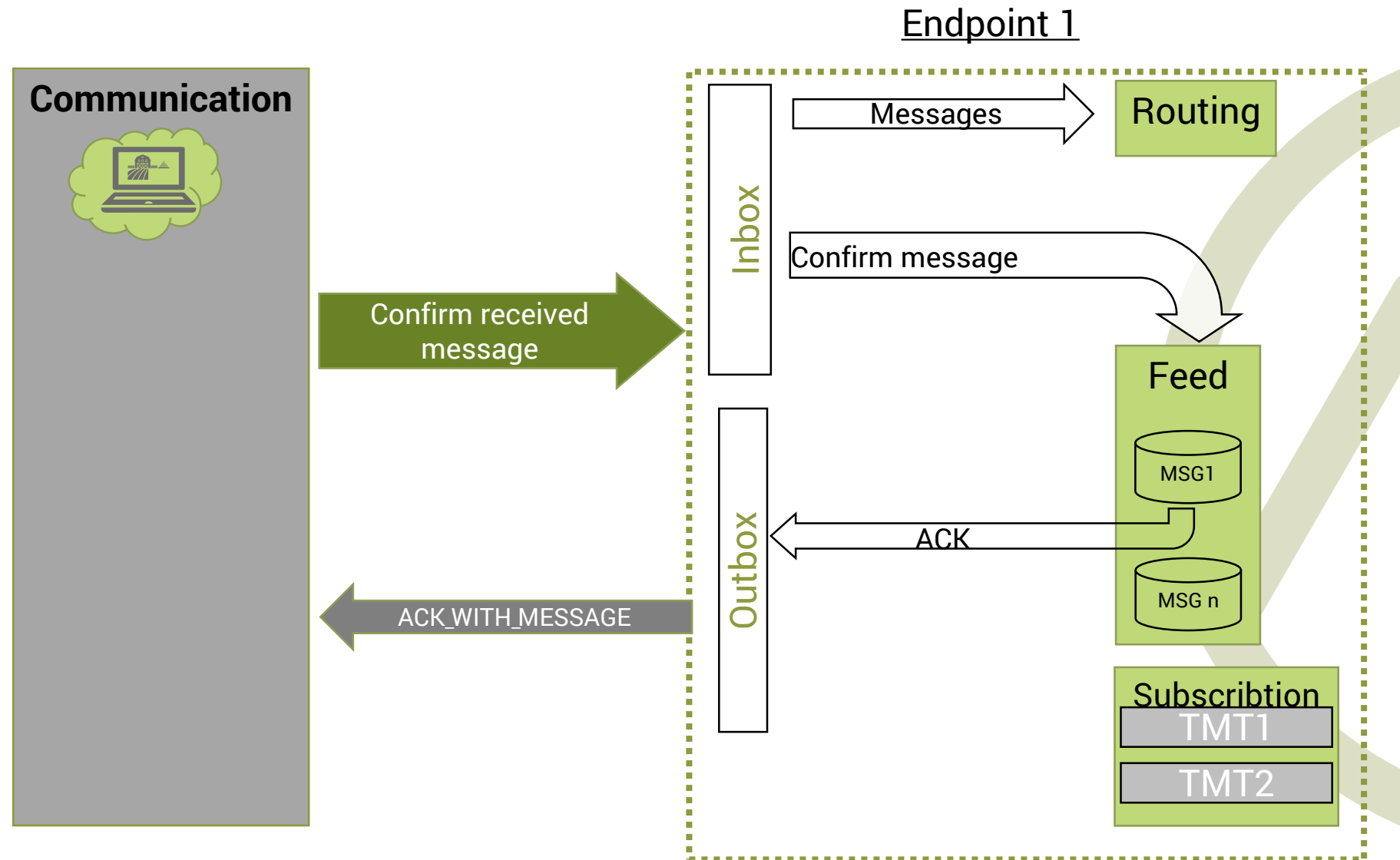
Receive and analyse messages with push notifications



Receive and analyse messages with push notifications



Receive and analyse messages with push notifications





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