



agrirouter

API Developer Tutorial

Basics of Routing

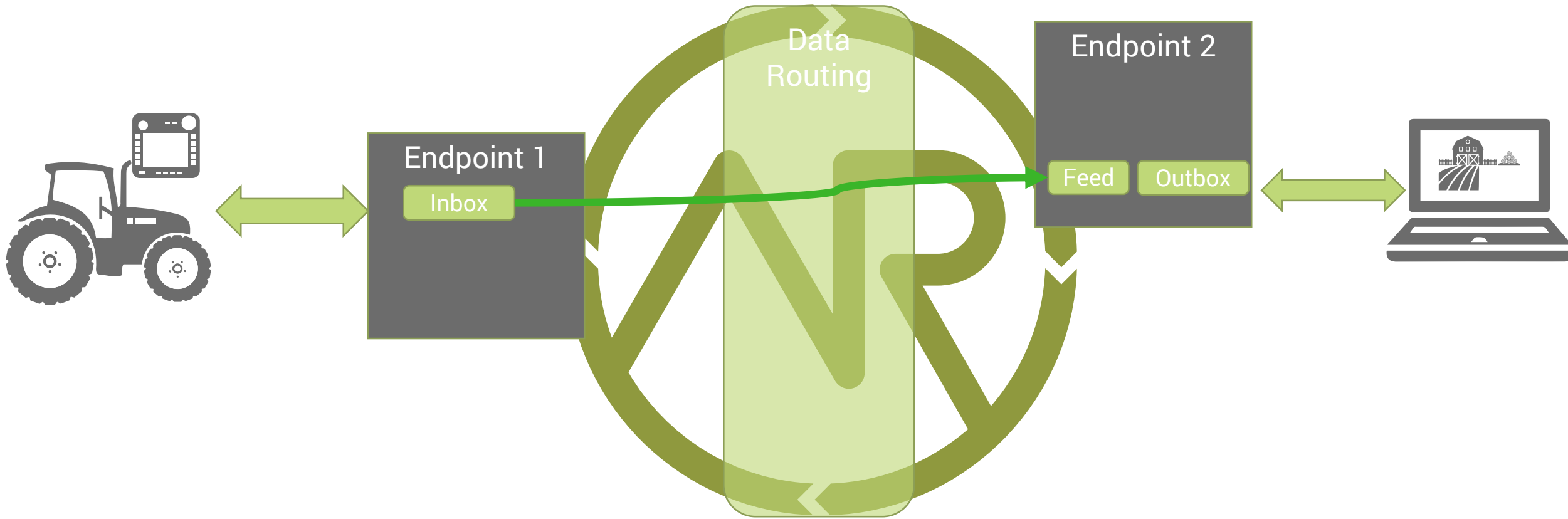
presented by

dev4
AGRICULTURE

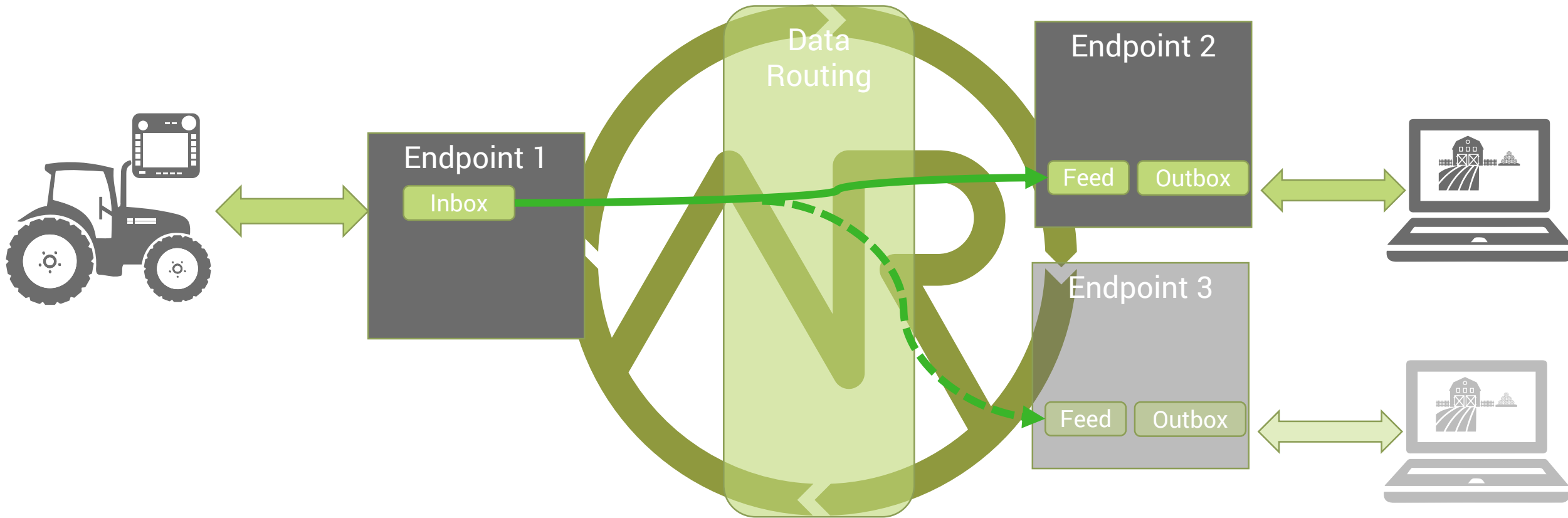
What is this video about?

- Technical Message Types and Information Types
- Capabilities of App Versions and App Instances
- Routings between endpoints
- Routings between endpoints and groups
- Addressed sending and published sending

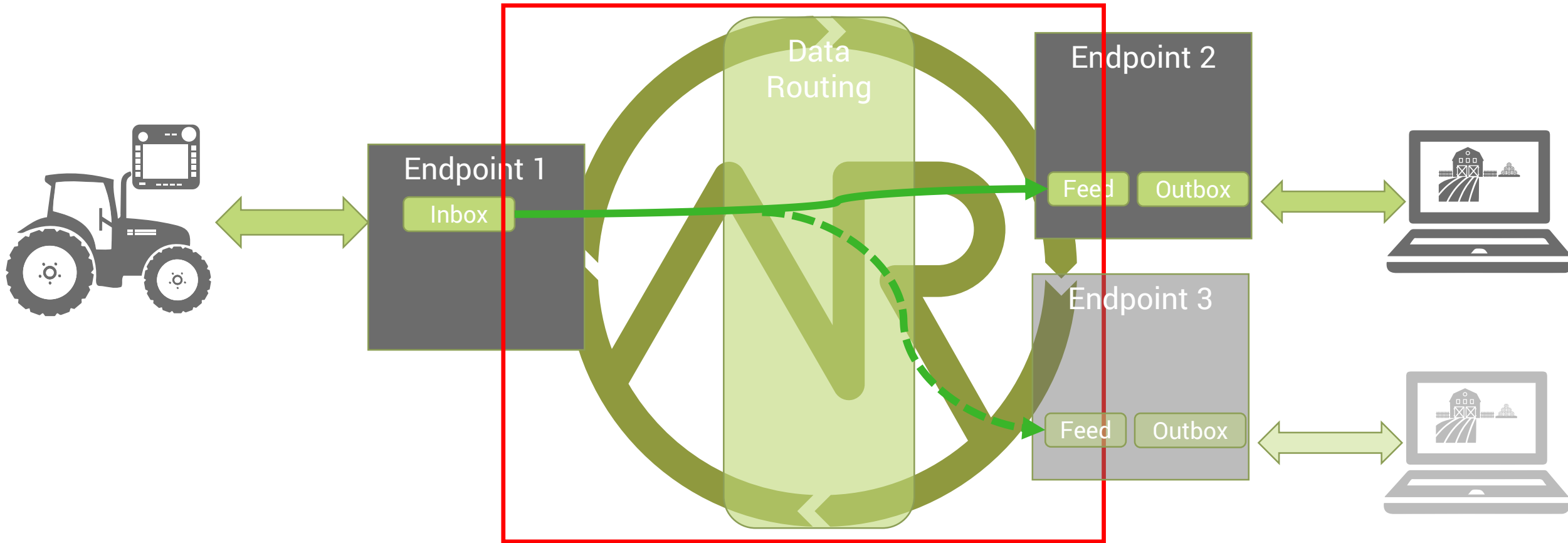
Intro: What is routing about



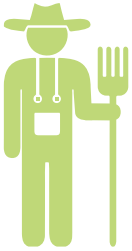
Intro: What is routing about



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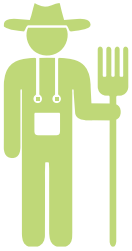
Technical Message Types vs. Information Types



img:bmp	vid:wmv	shp:shape:zip	iso:11783:- 10:taskdata:zip	doc:pdf
img:png	vid:mp4			
img:jpeg	vid:avi			

Technical Message
Types (TMT)

Technical Message Types vs. Information Types



„Got it“

img:bmp

vid:wmv

shp:shape:zip

iso:11783:-
10:taskdata:zip

doc:pdf

img:png

vid:mp4

img:jpeg

vid:avi

Technical Message
Types (TMT)

Technical Message Types vs. Information Types



„???“

img:bmp

vid:wmv

shp:shape:zip

iso:11783:-
10:taskdata:zip

doc:pdf

„Got it“

img:png

vid:mp4

img:jpeg

vid:avi

Technical Message
Types (TMT)



Technical Message Types vs. Information Types



„???”

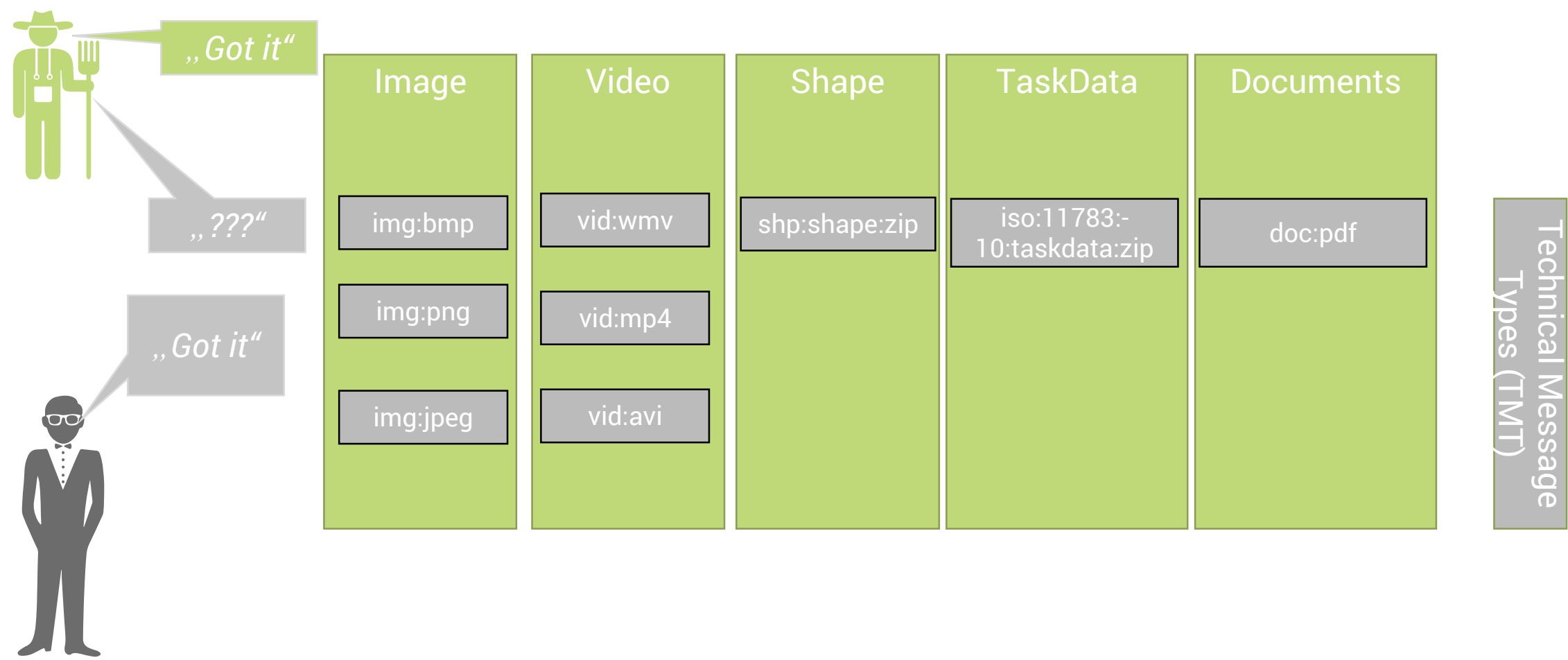
„Got it”



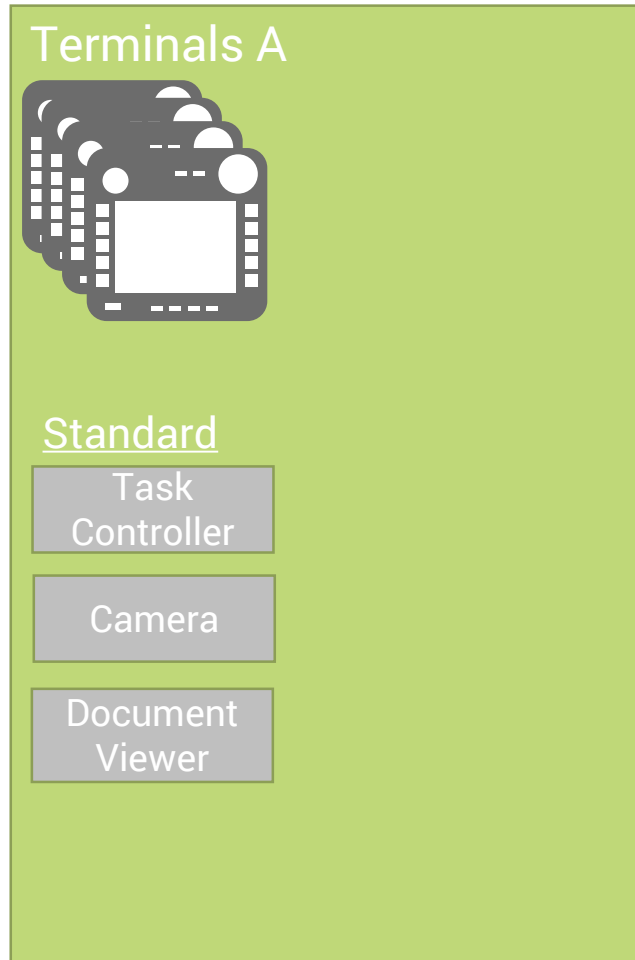
Image	Video	Shape	TaskData	Documents
img:bmp	vid:wmv	shp:shape:zip	iso:11783:-10:taskdata:zip	doc:pdf
img:png	vid:mp4			
img:jpeg	vid:avi			

Technical Message
Types (TMT)

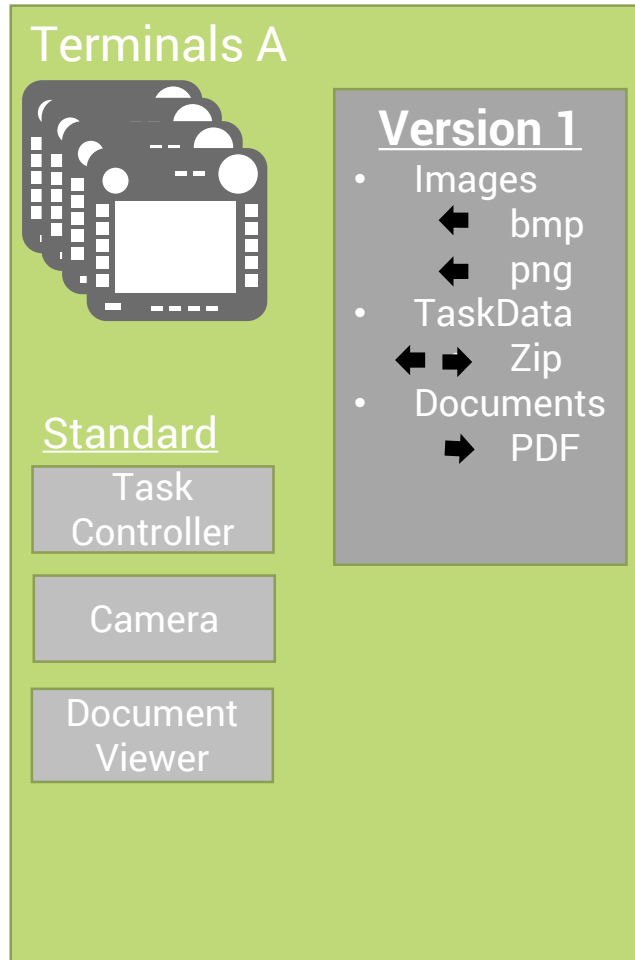
Technical Message Types vs. Information Types



Capabilities: Terminal A as simple example

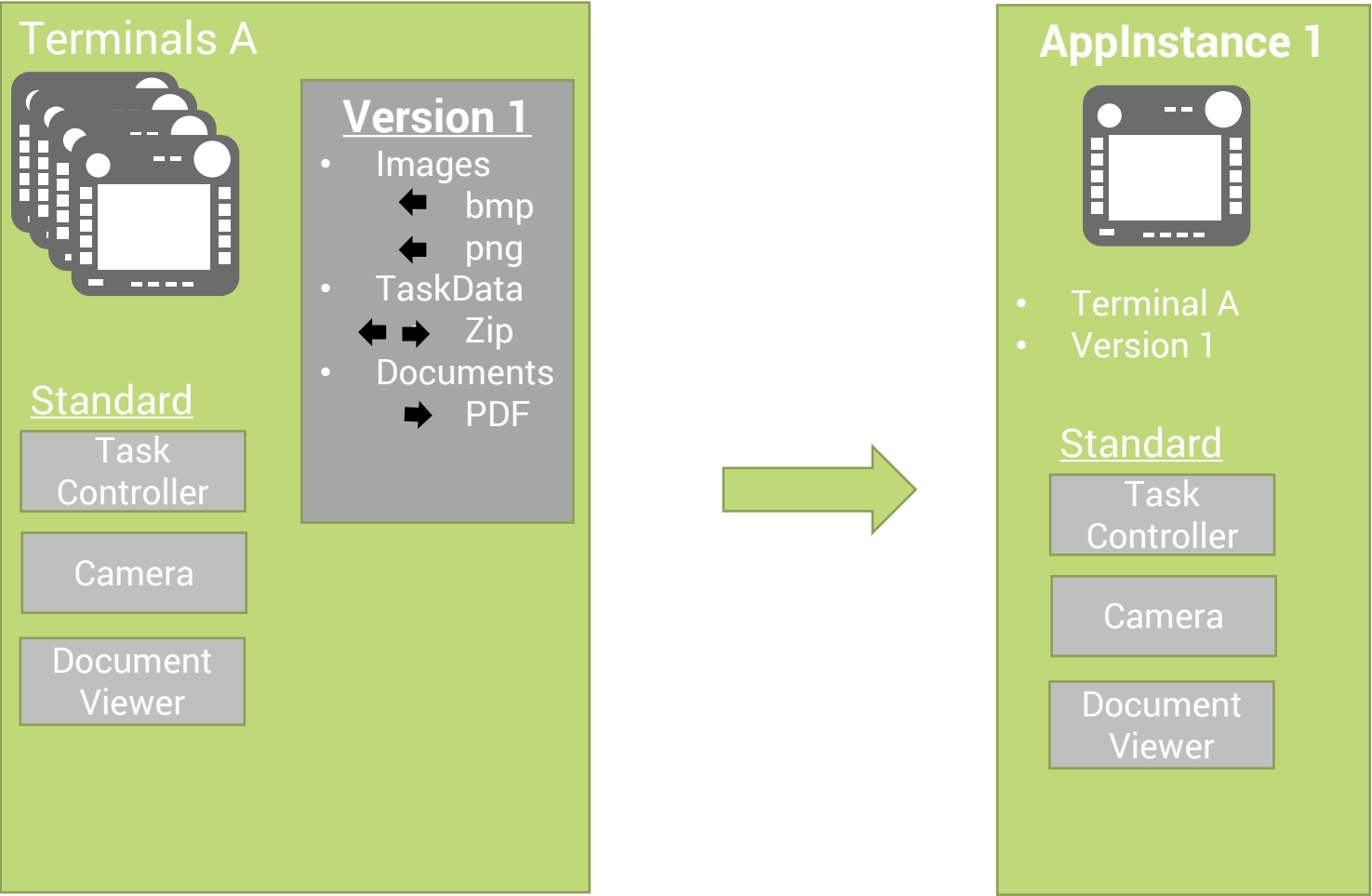


Capabilities: Terminal A as simple example



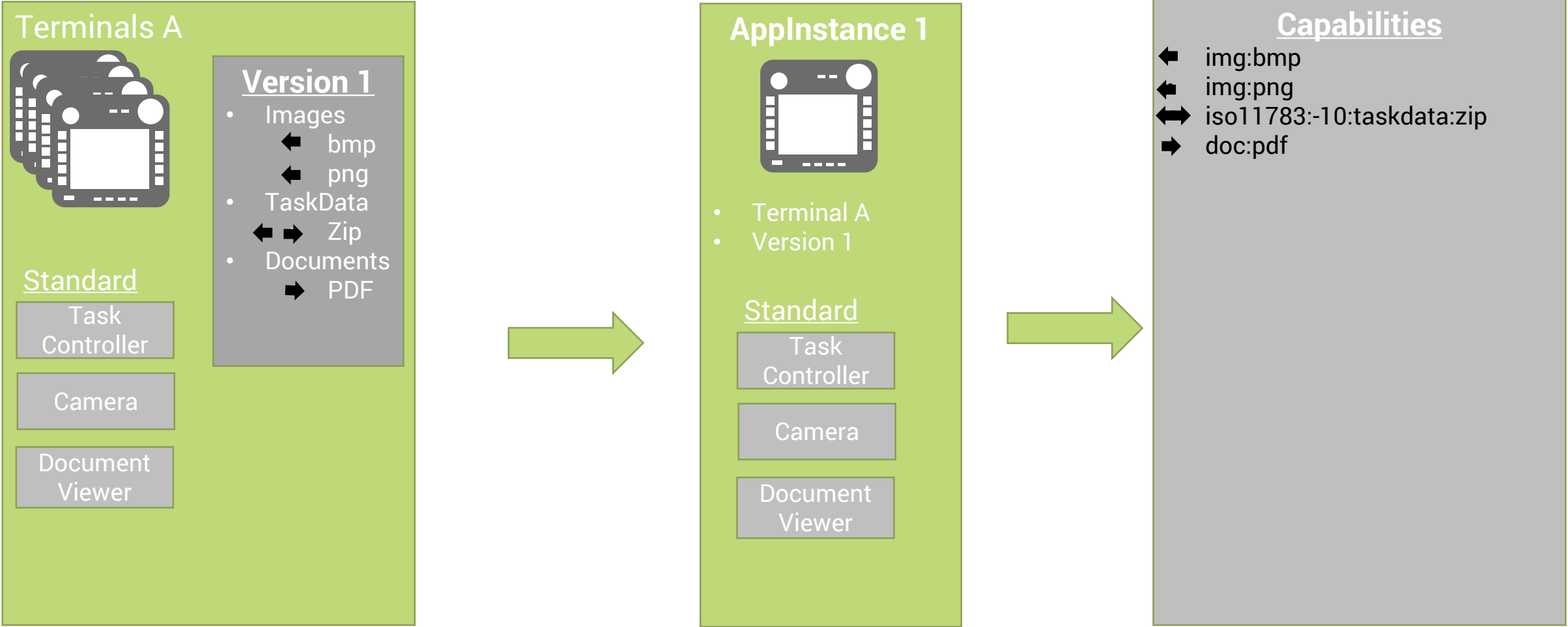
◀ Send
▶ Receive

Capabilities: Terminal A as simple example



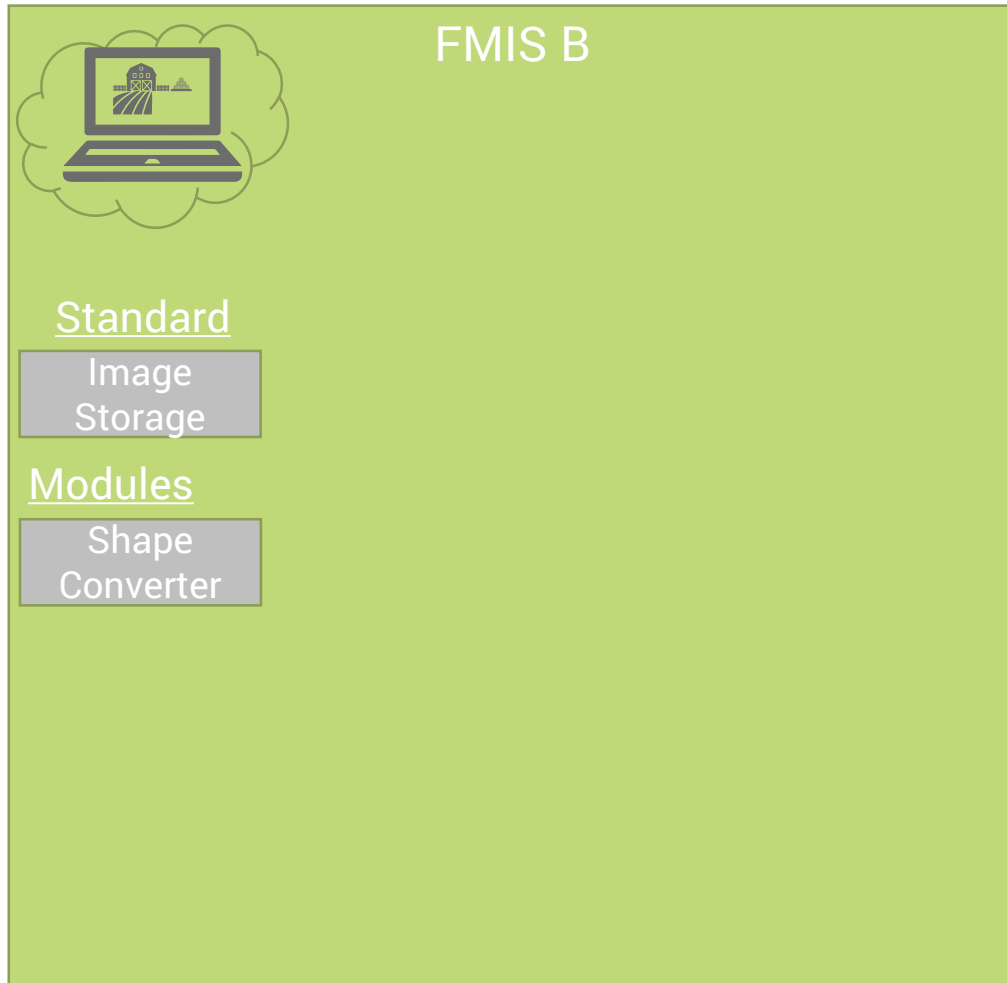
← Send
➔ Receive

Capabilities: Terminal A as simple example

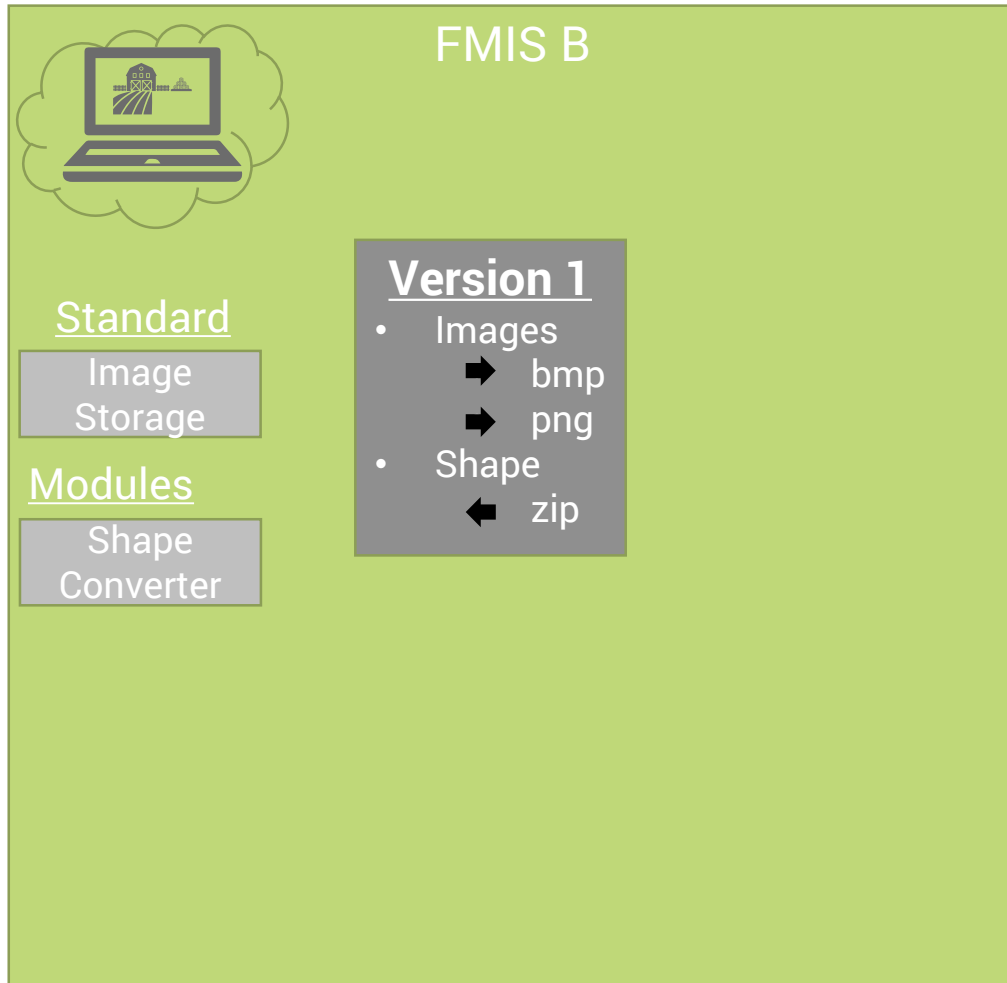


← Send
➔ Receive

Capabilities: FMIS B as a Modular application



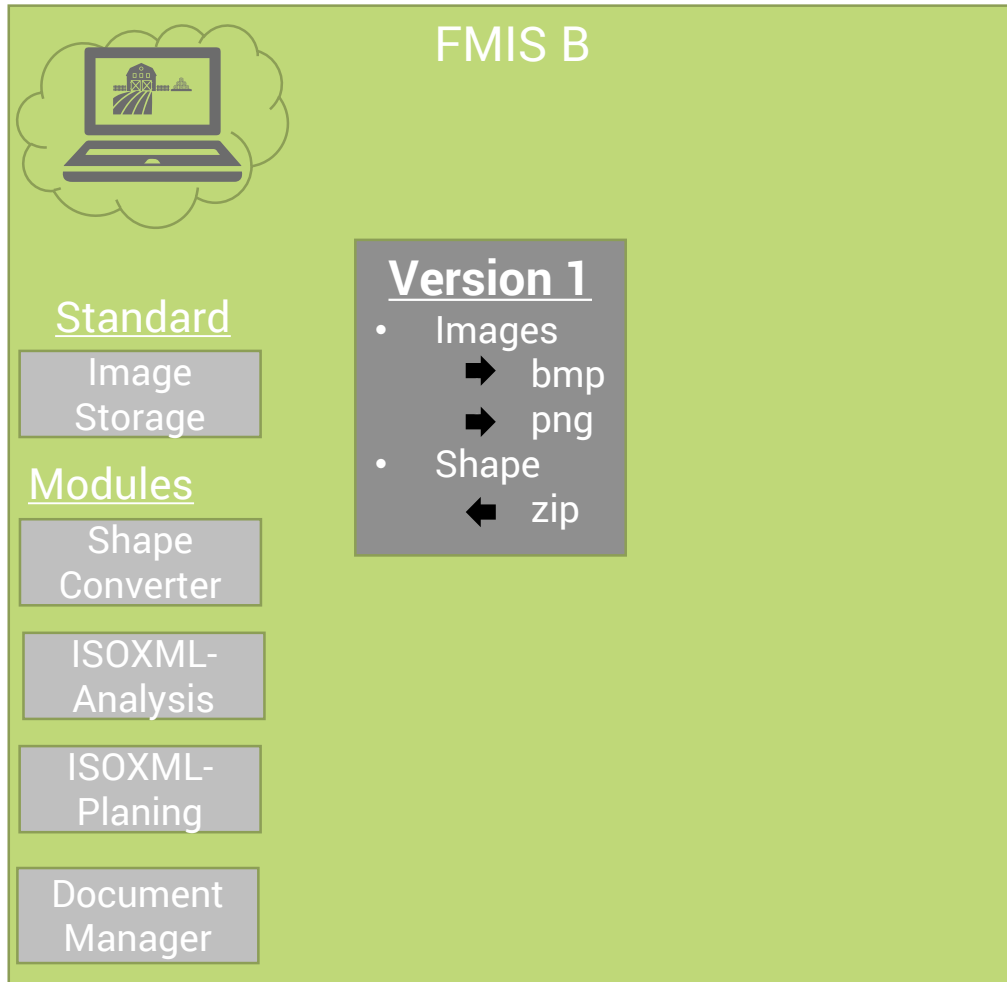
Capabilities: FMIS B as a Modular application



← Send

➡ Receive

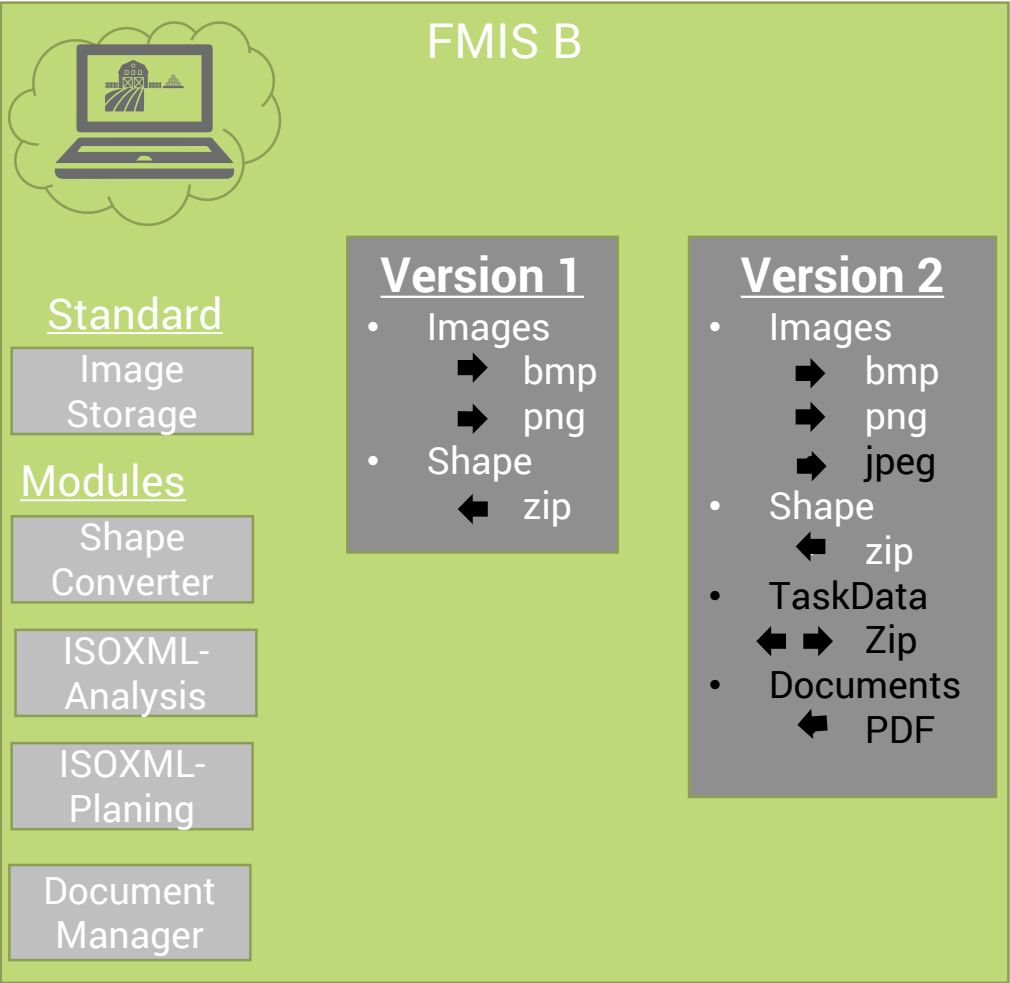
Capabilities: FMIS B as a Modular application



← Send

➡ Receive

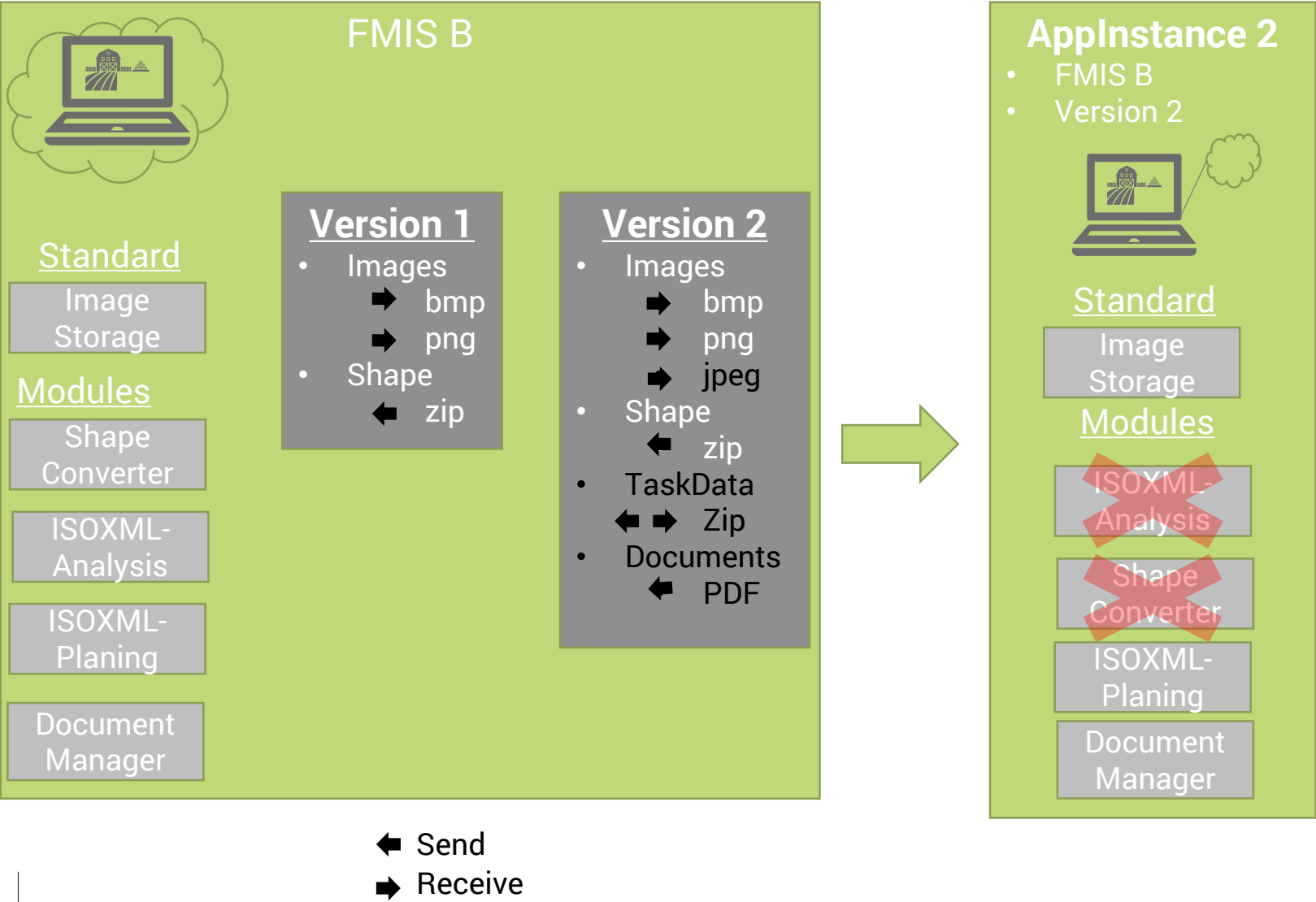
Capabilities: FMIS B as a Modular application



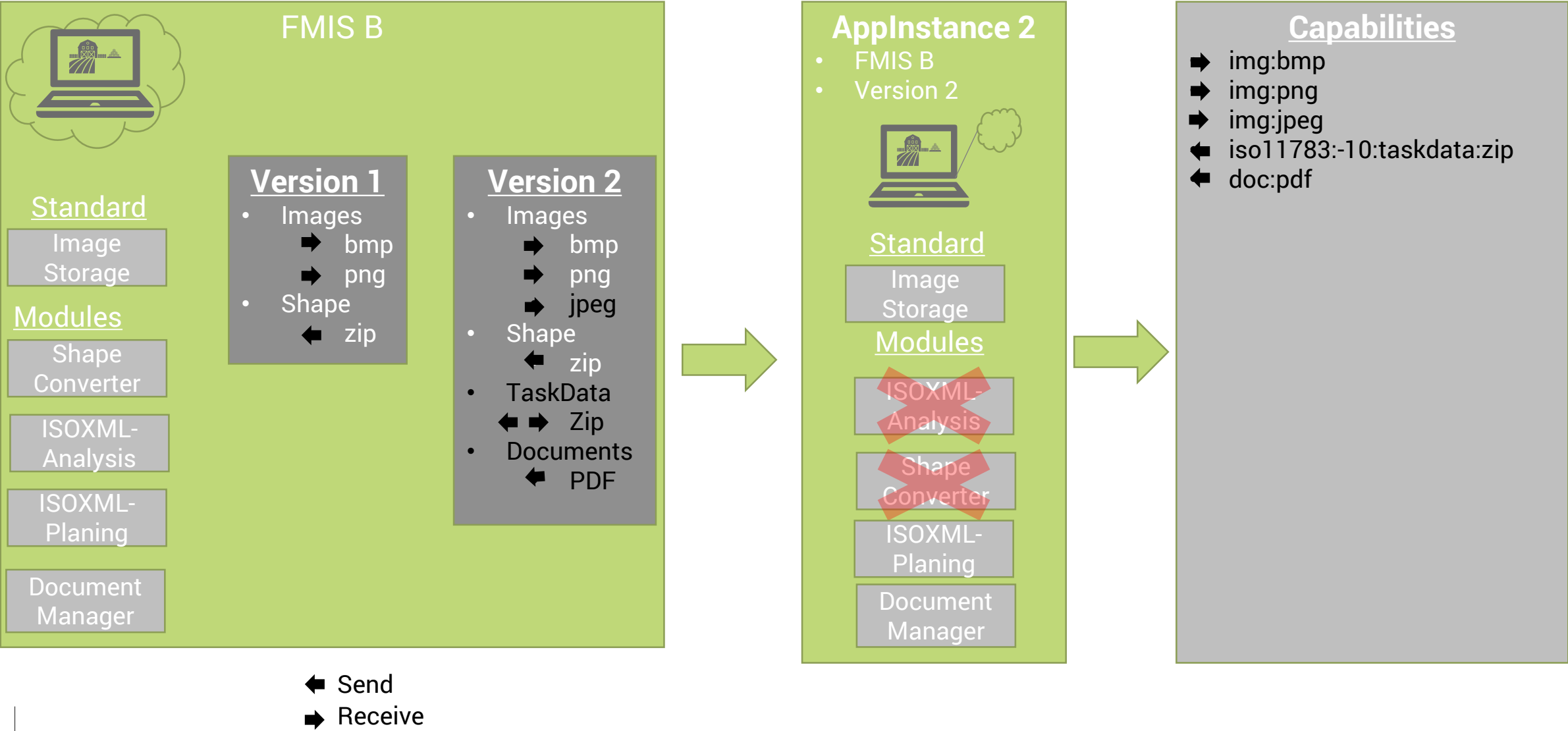
← Send

➡ Receive

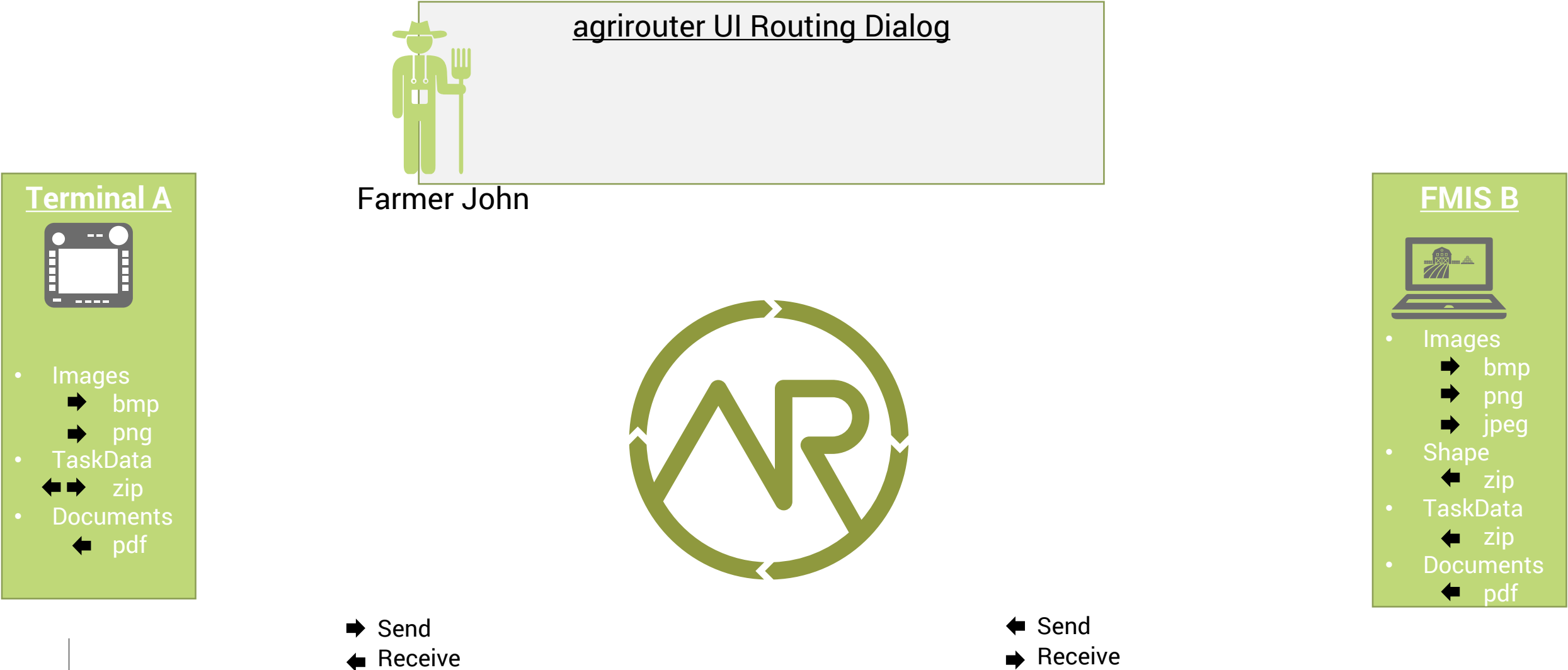
Capabilities: FMIS B as a Modular application



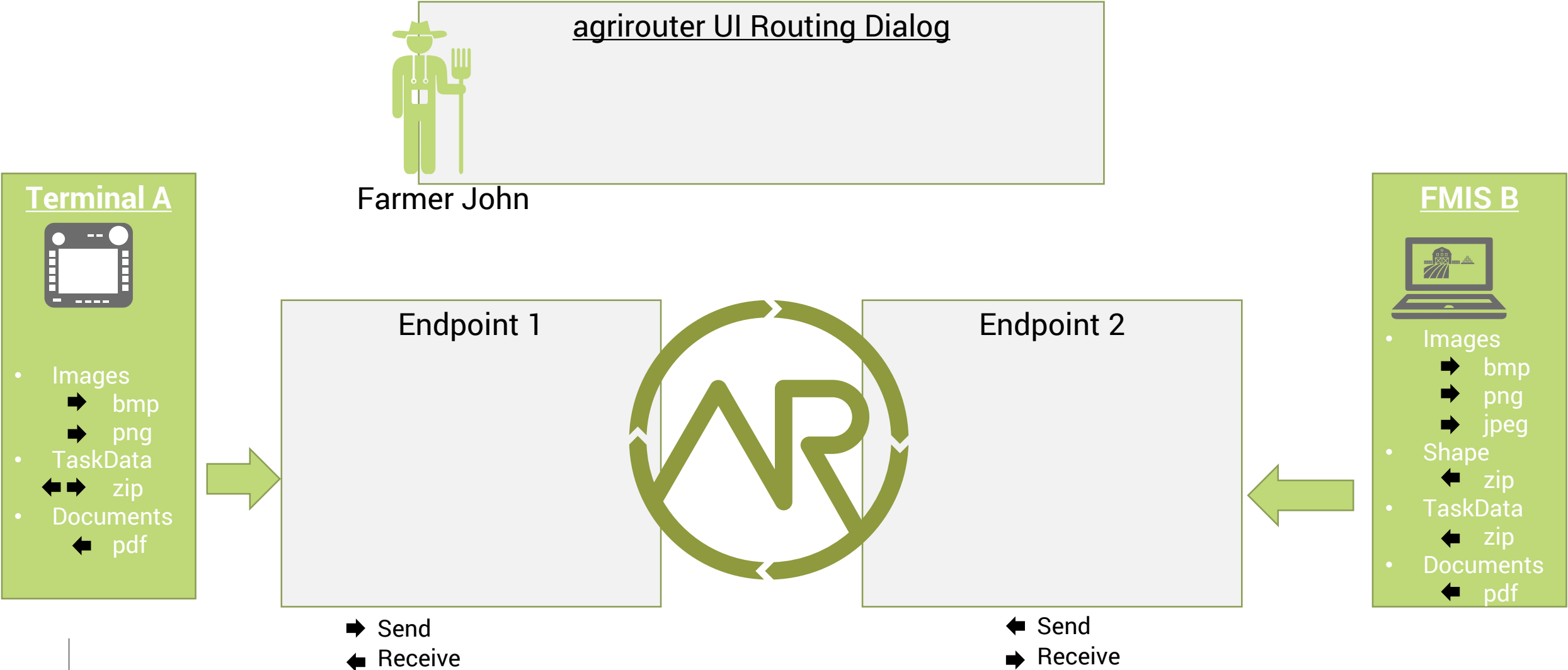
Capabilities: FMIS B as a Modular application



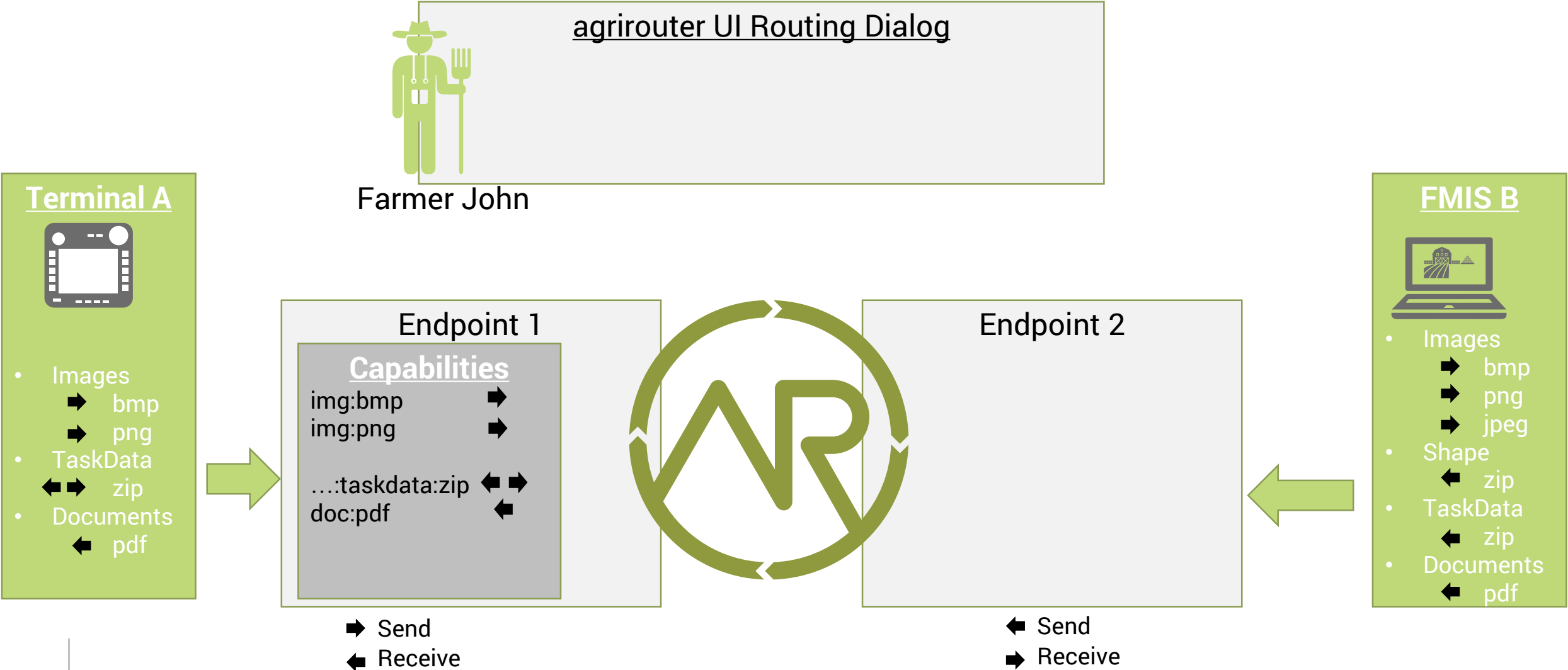
Routing: Routing between 2 endpoints



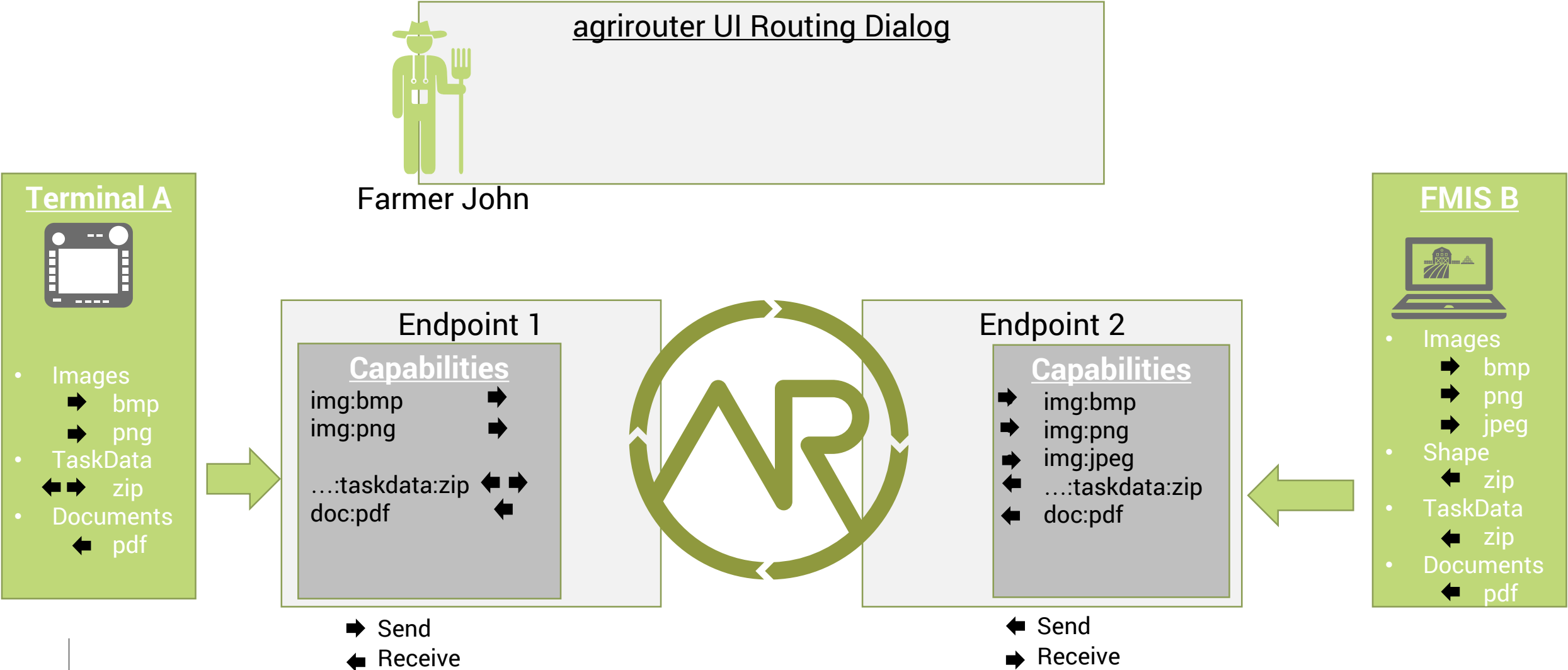
Routing: Routing between 2 endpoints



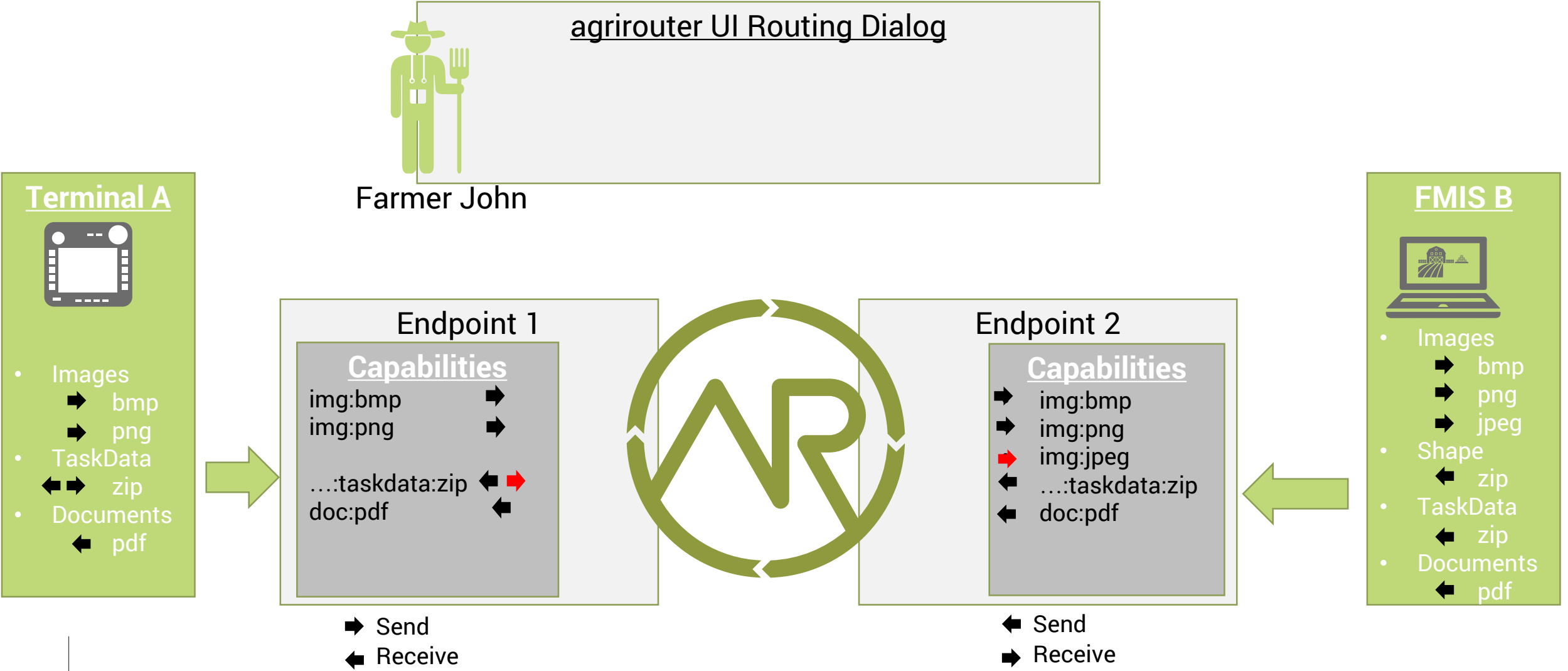
Routing: Routing between 2 endpoints



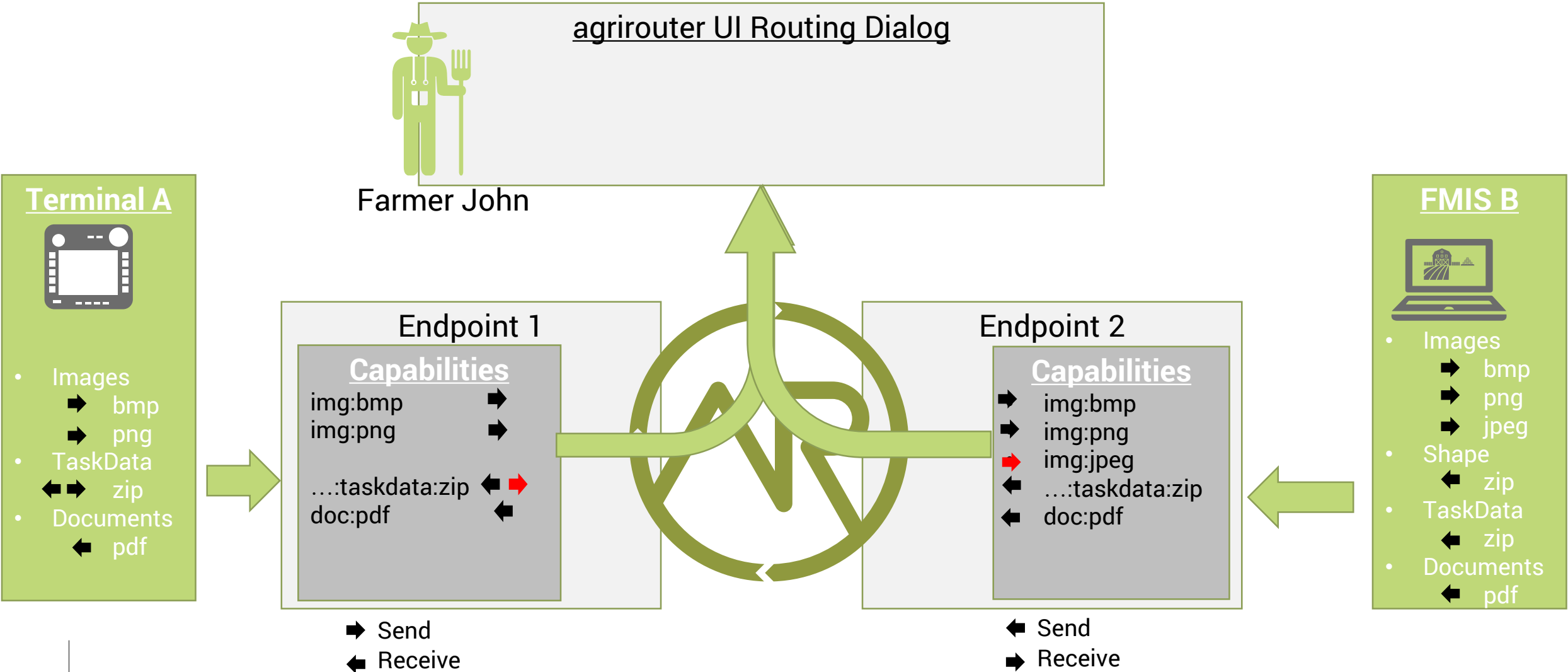
Routing: Routing between 2 endpoints



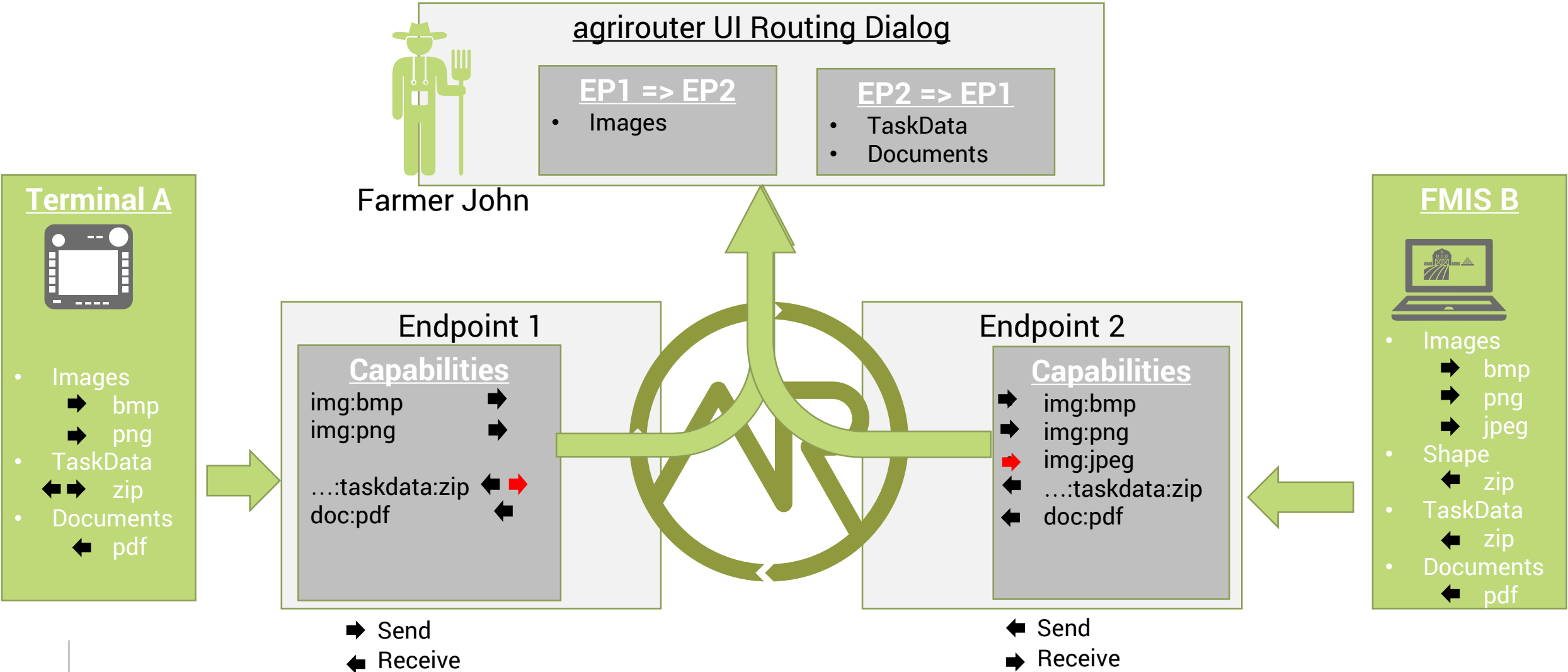
Routing: Routing between 2 endpoints



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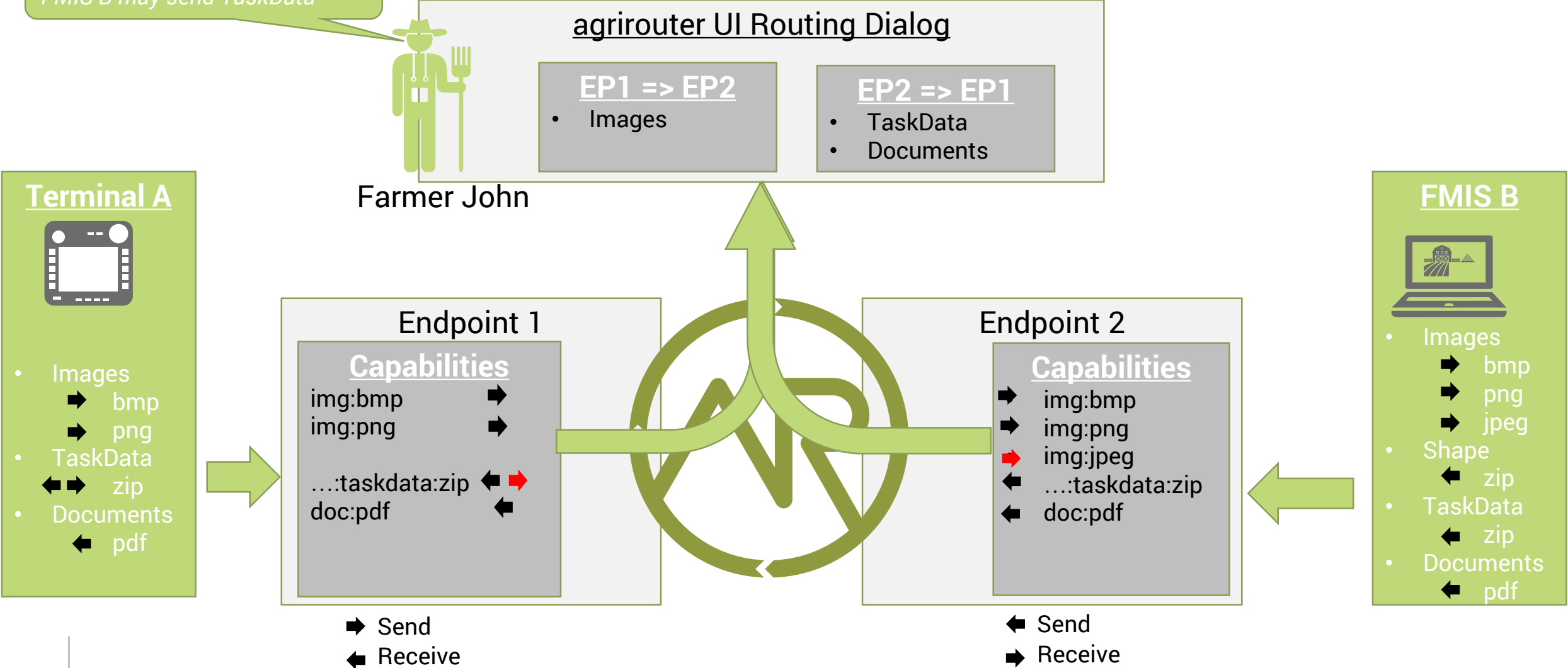


Routing: Routing between 2 endpoints



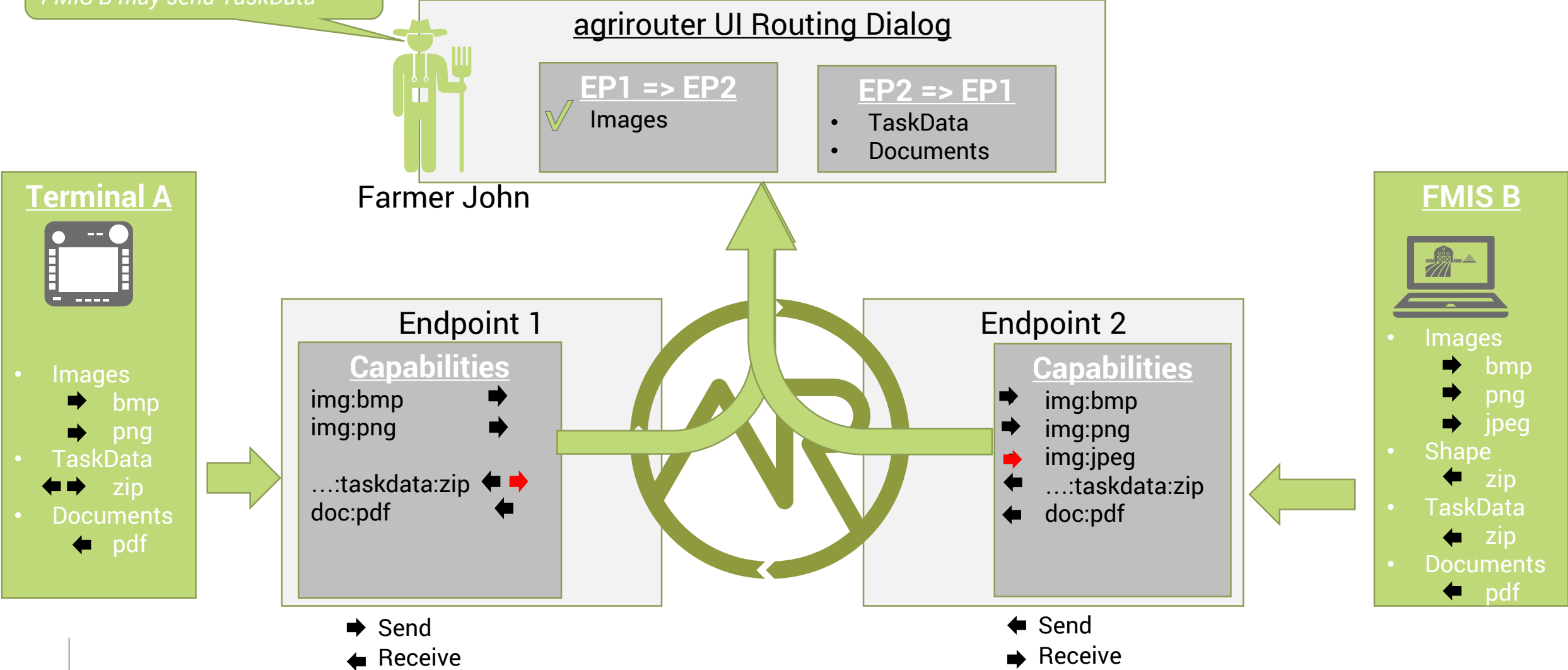
Routing: Routing between 2 endpoints

„Terminal A may send images
FMIS B may send TaskData“



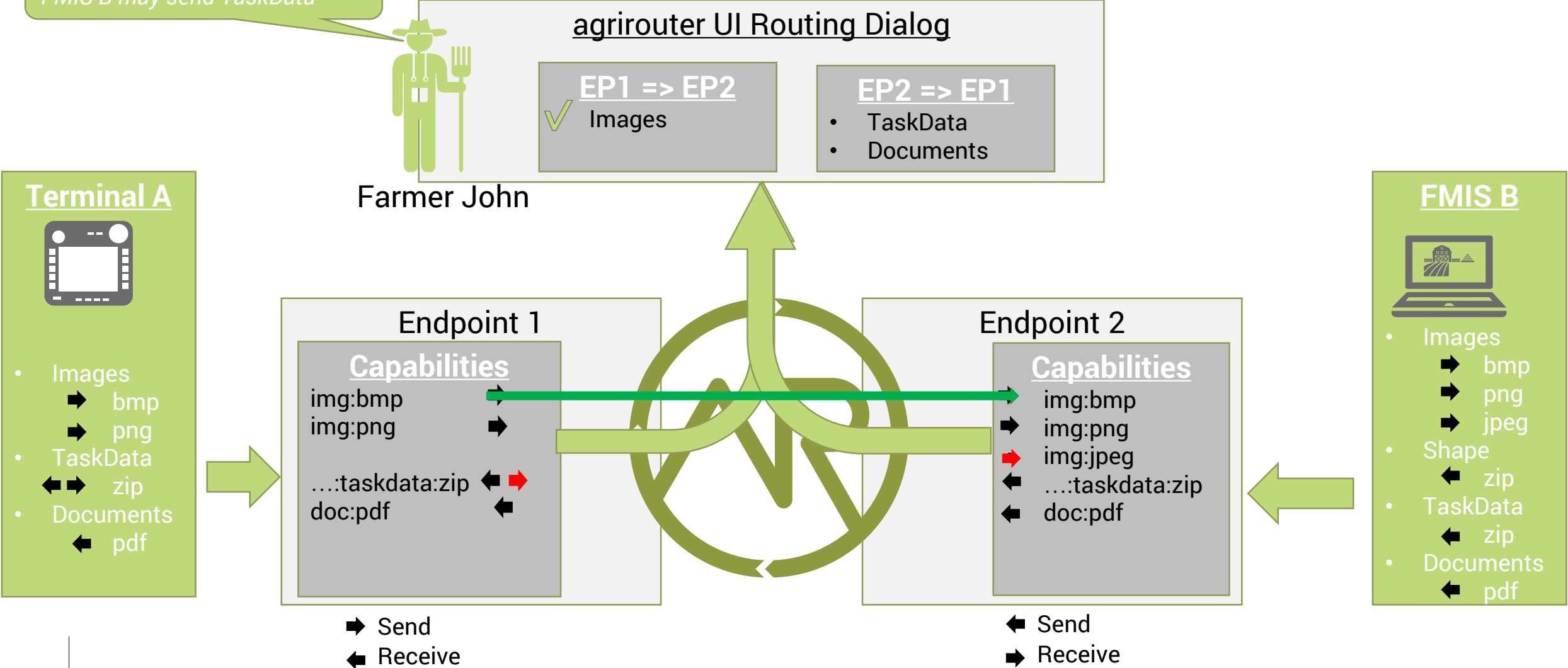
Routing: Routing between 2 endpoints

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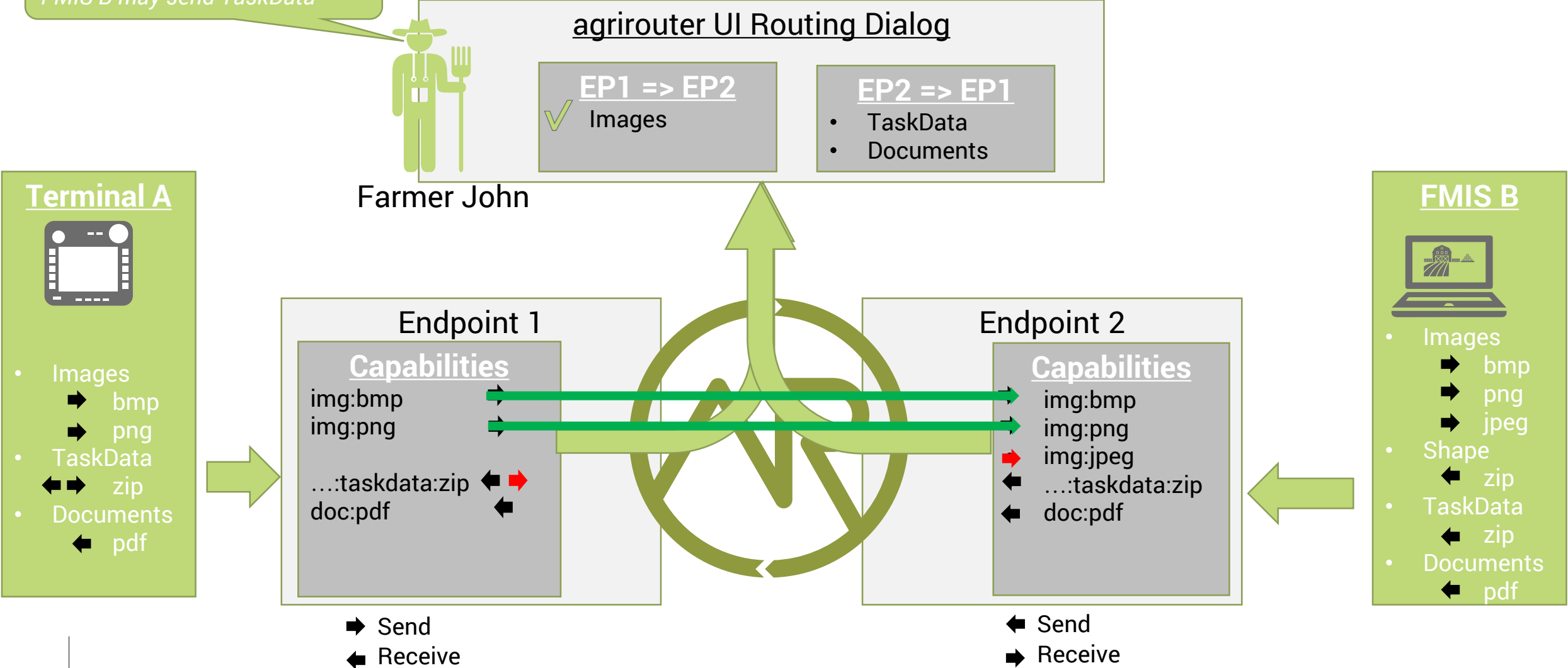
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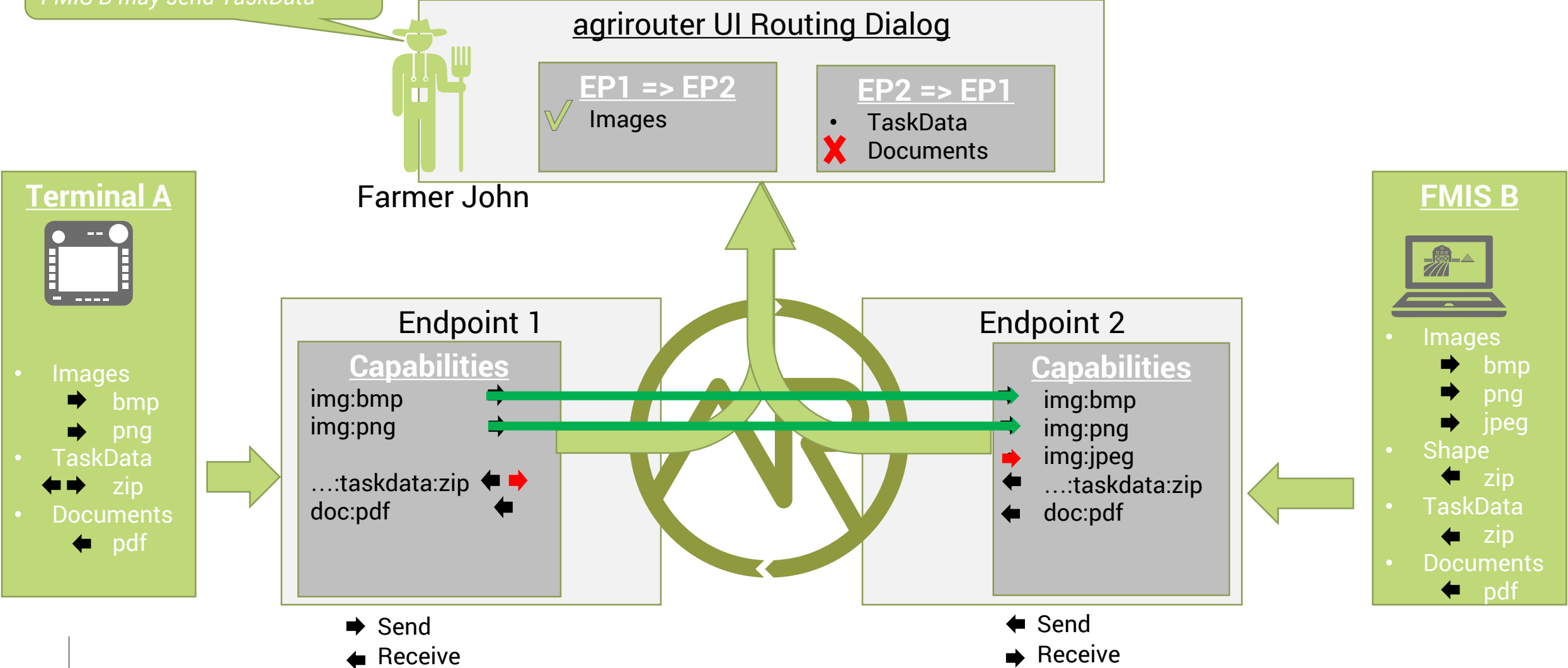
Routing: Routing between 2 endpoints

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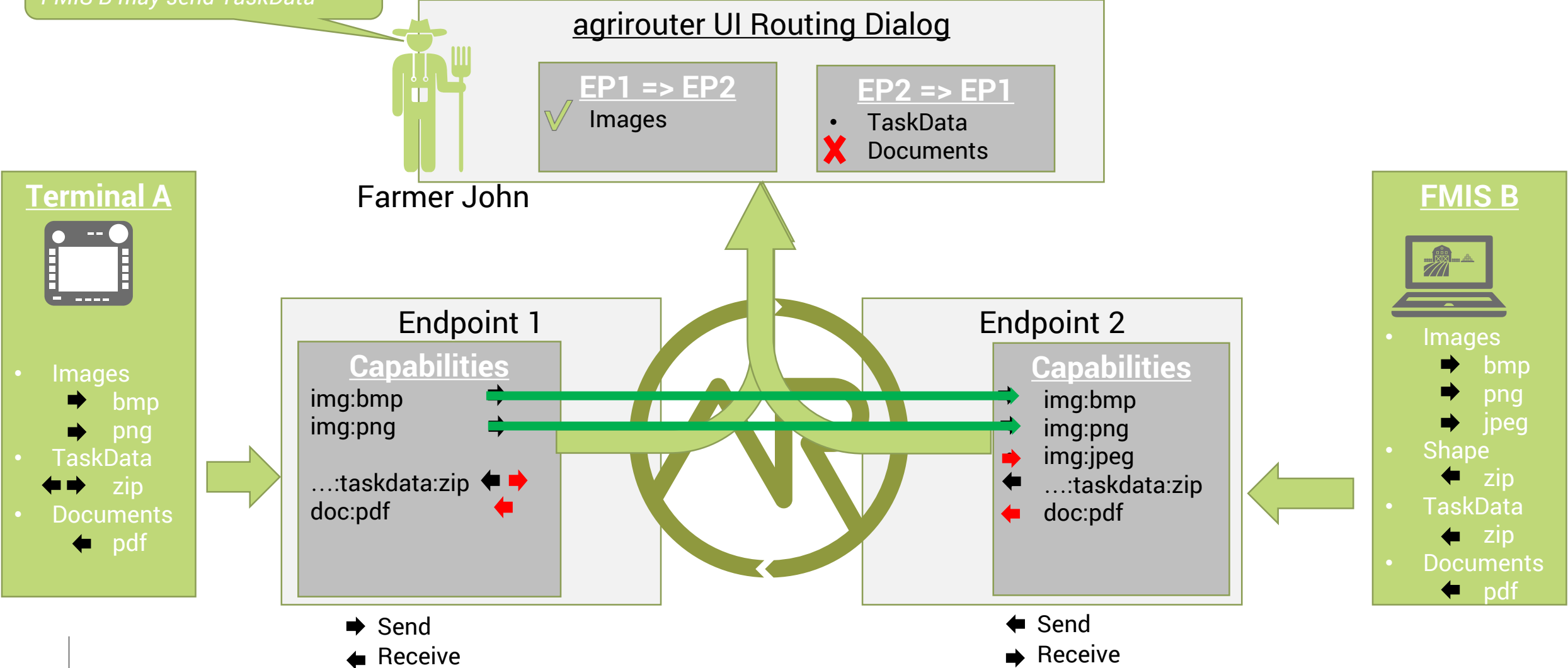
Routing: Routing between 2 endpoints

„Terminal A may send images
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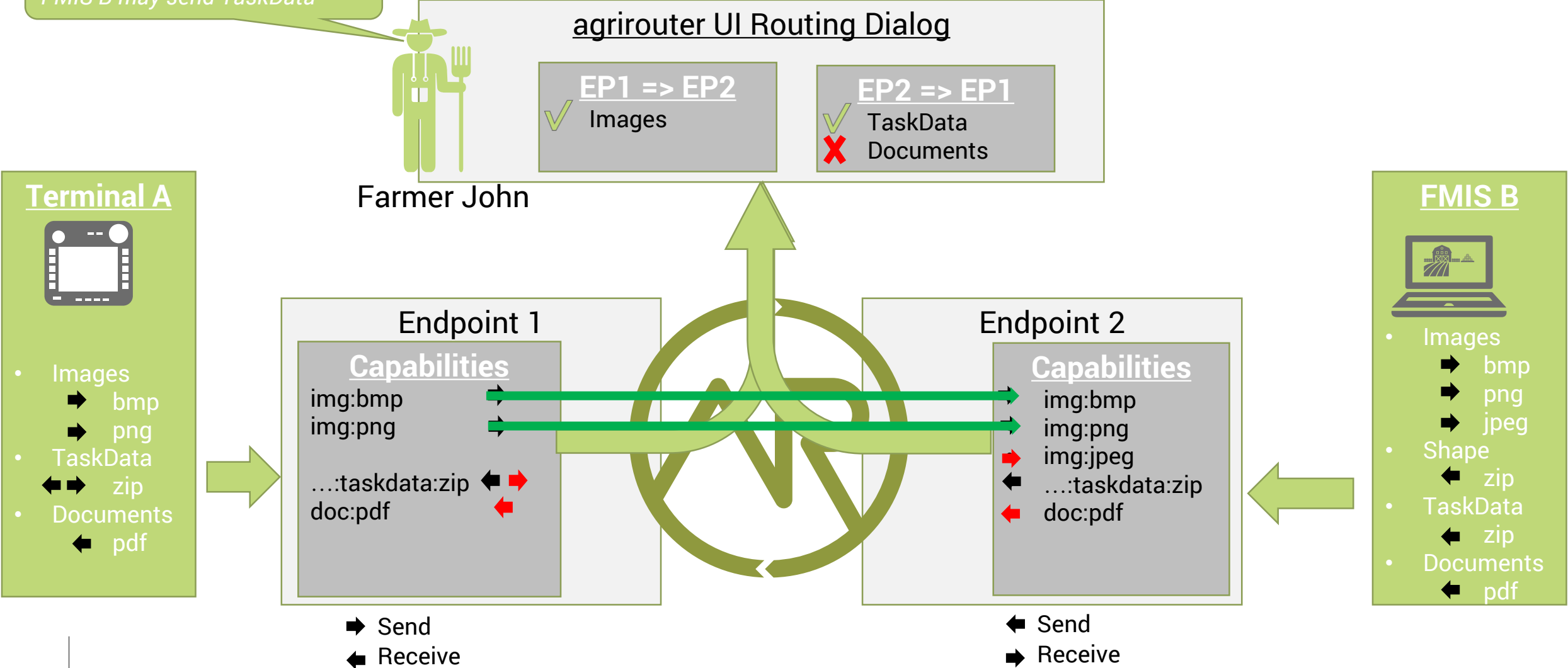
Routing: Routing between 2 endpoints

„Terminal A may send images
FMIS B may send TaskData“



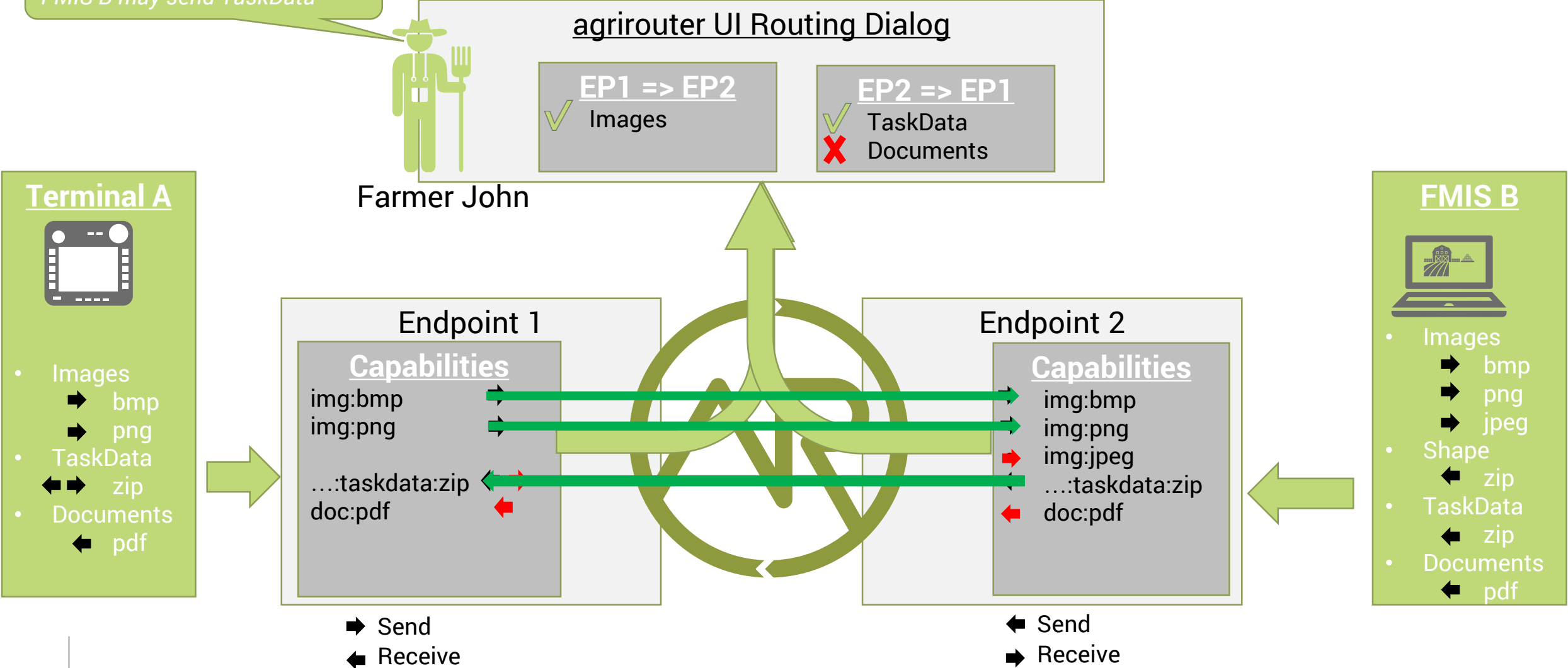
Routing: Routing between 2 endpoints

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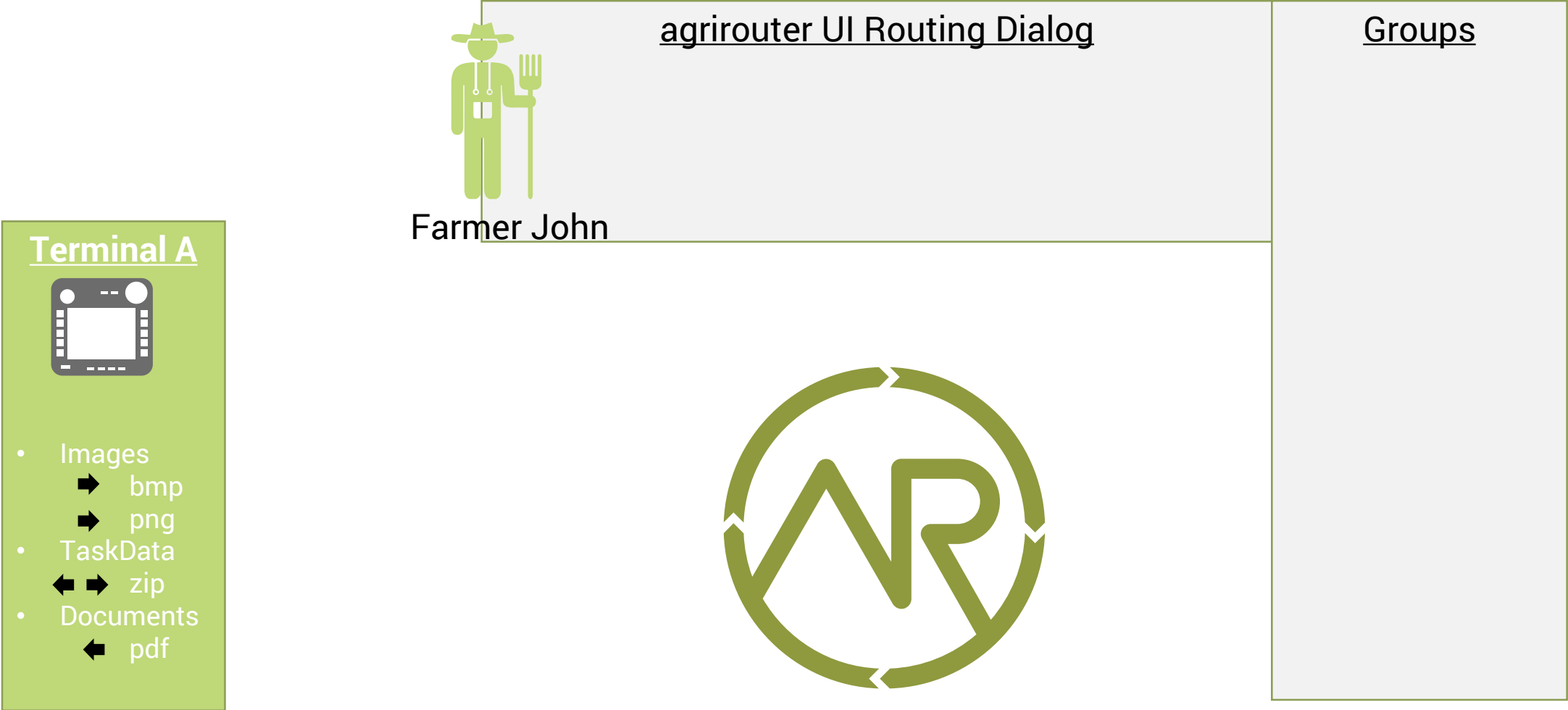


Routing: Routing between 2 endpoints

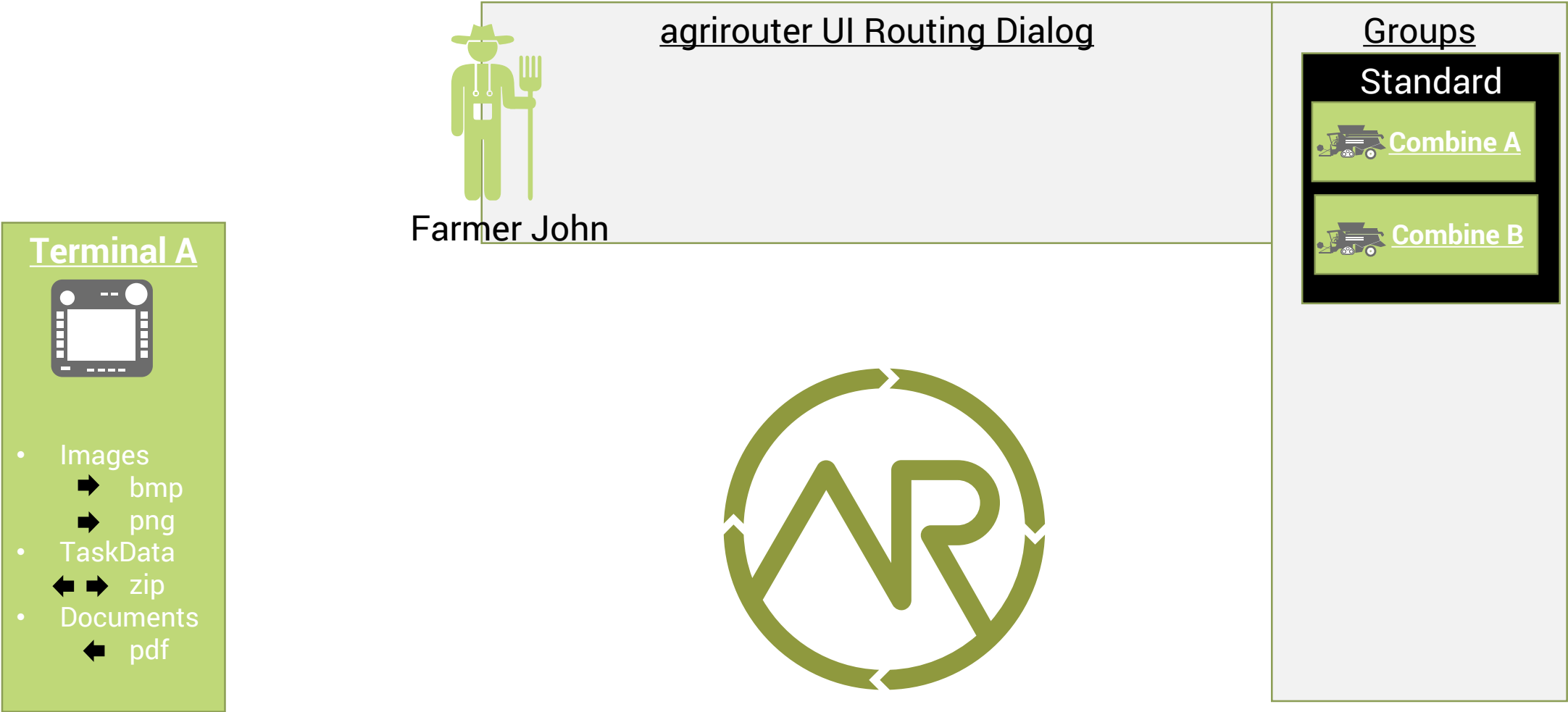
„Terminal A may send images
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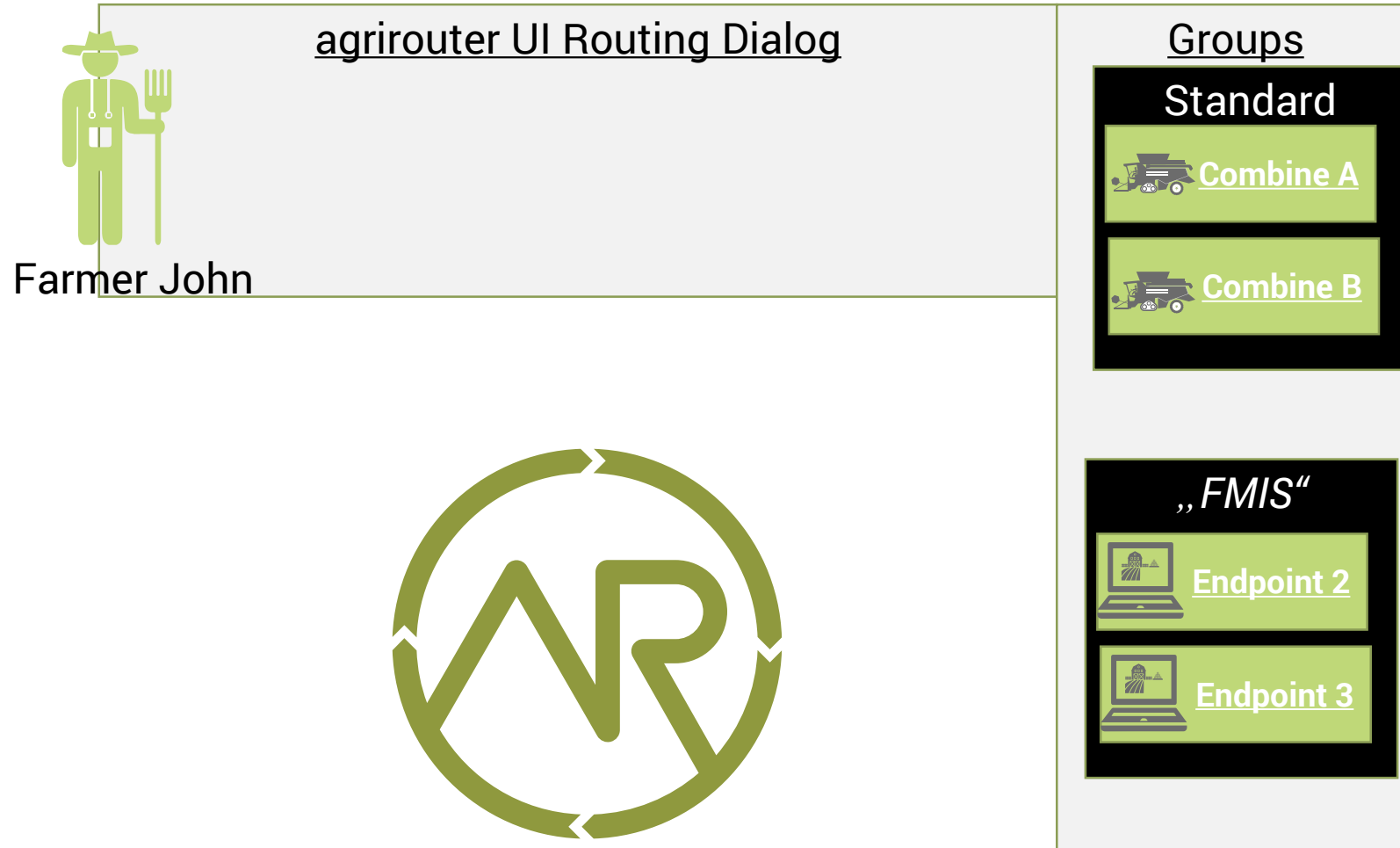
Routing: Routing between endpoint and group



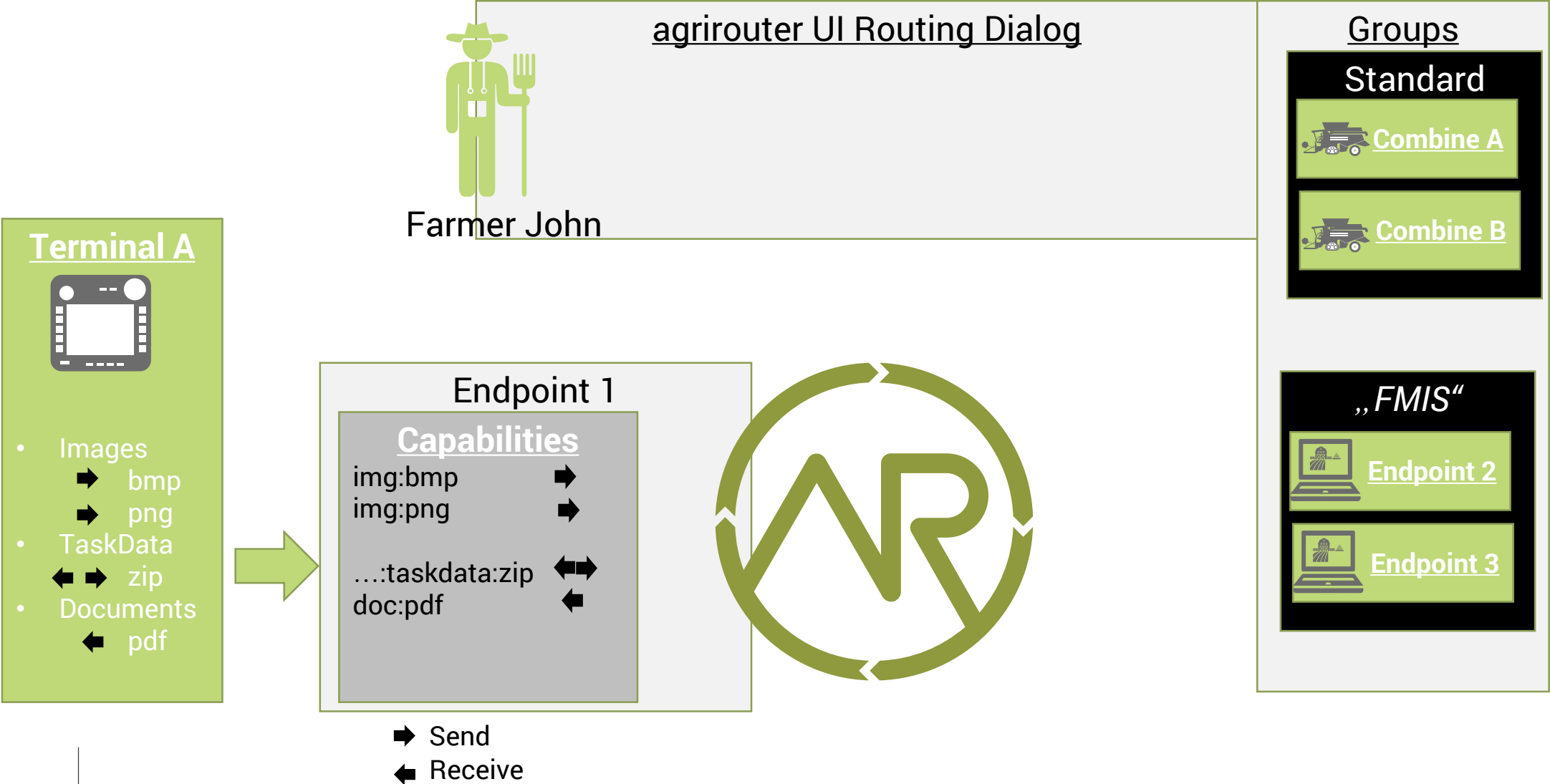
Routing: Routing between endpoint and group



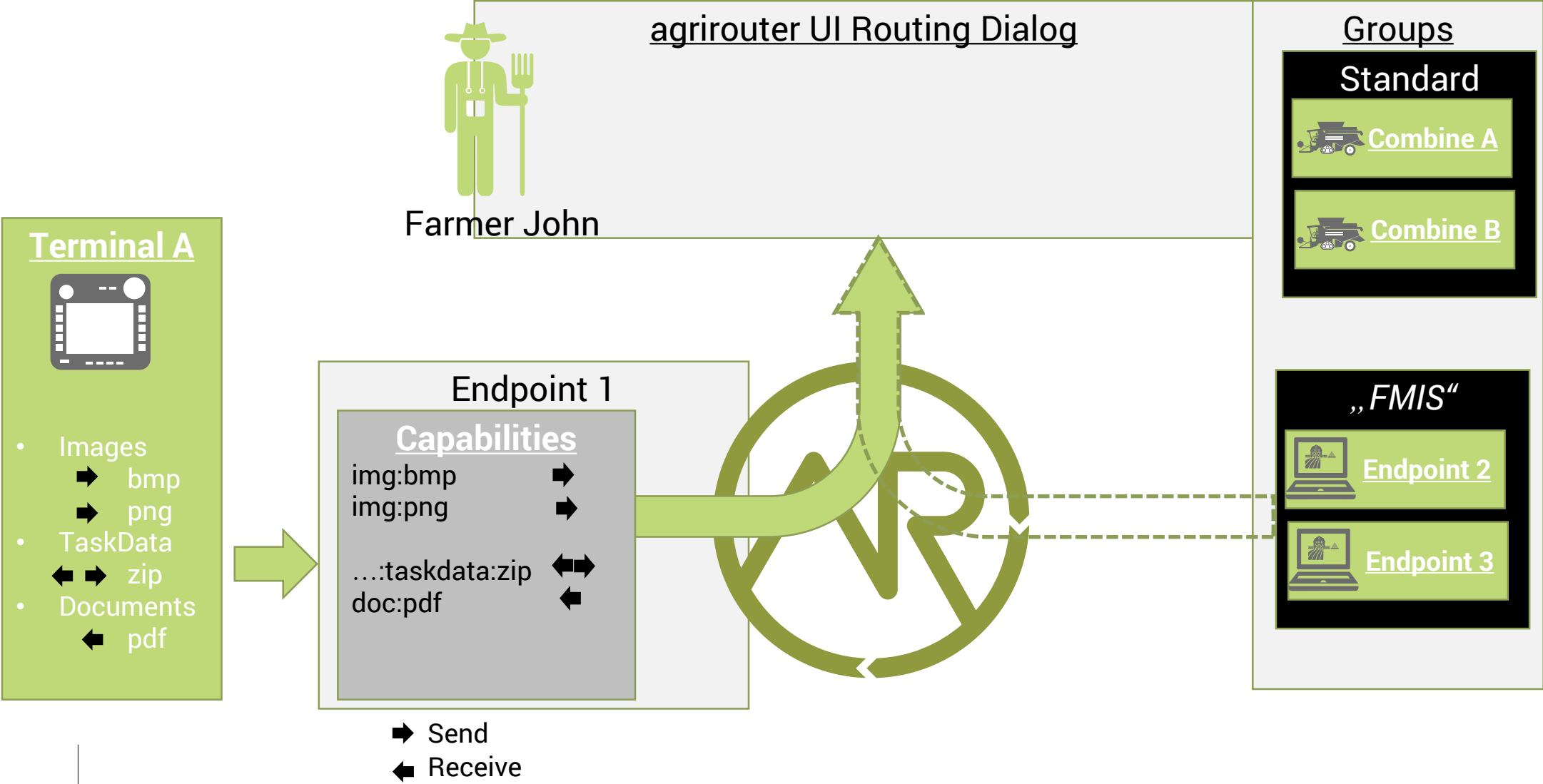
Routing: Routing between endpoint and group



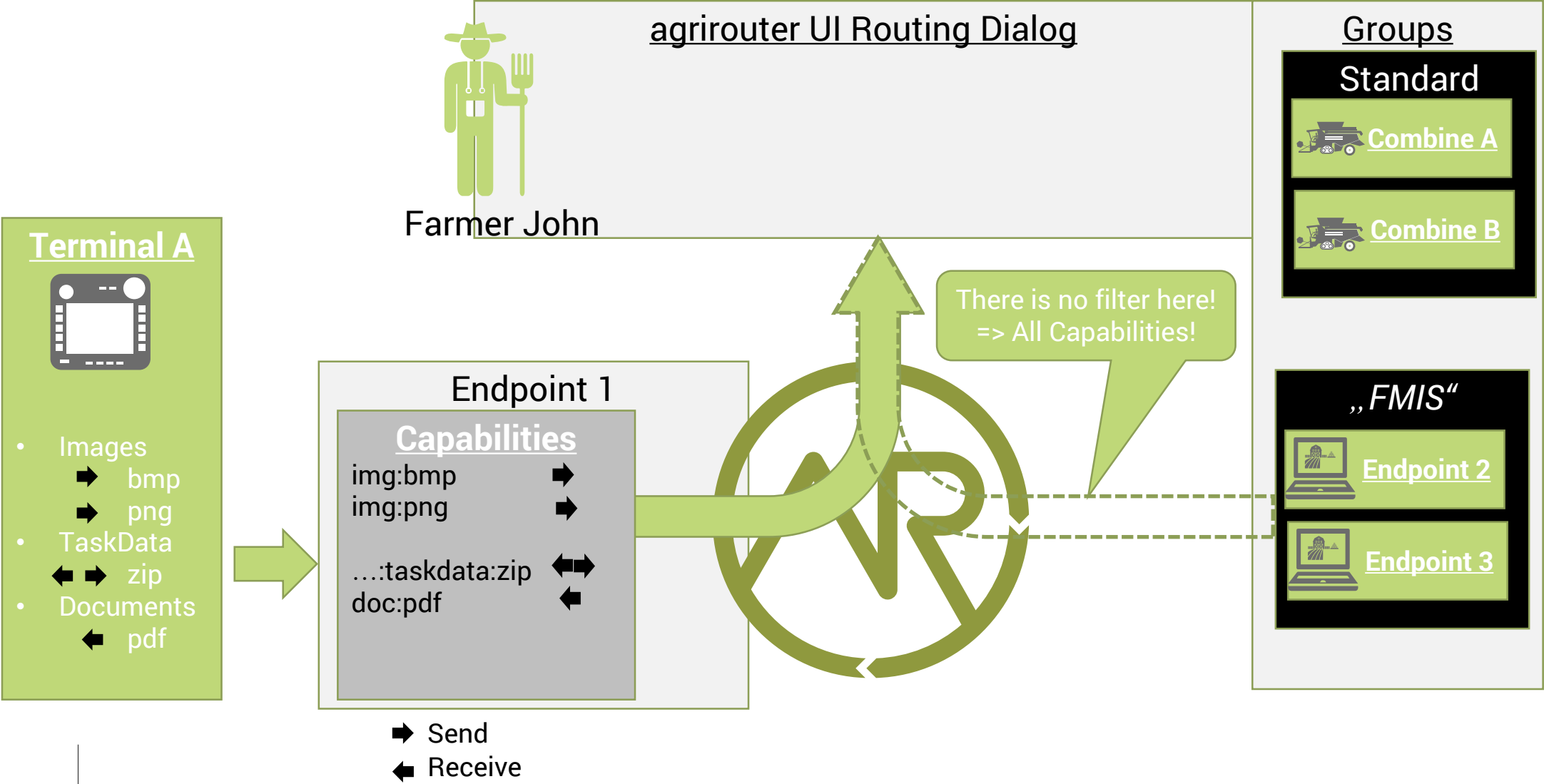
Routing: Routing between endpoint and group



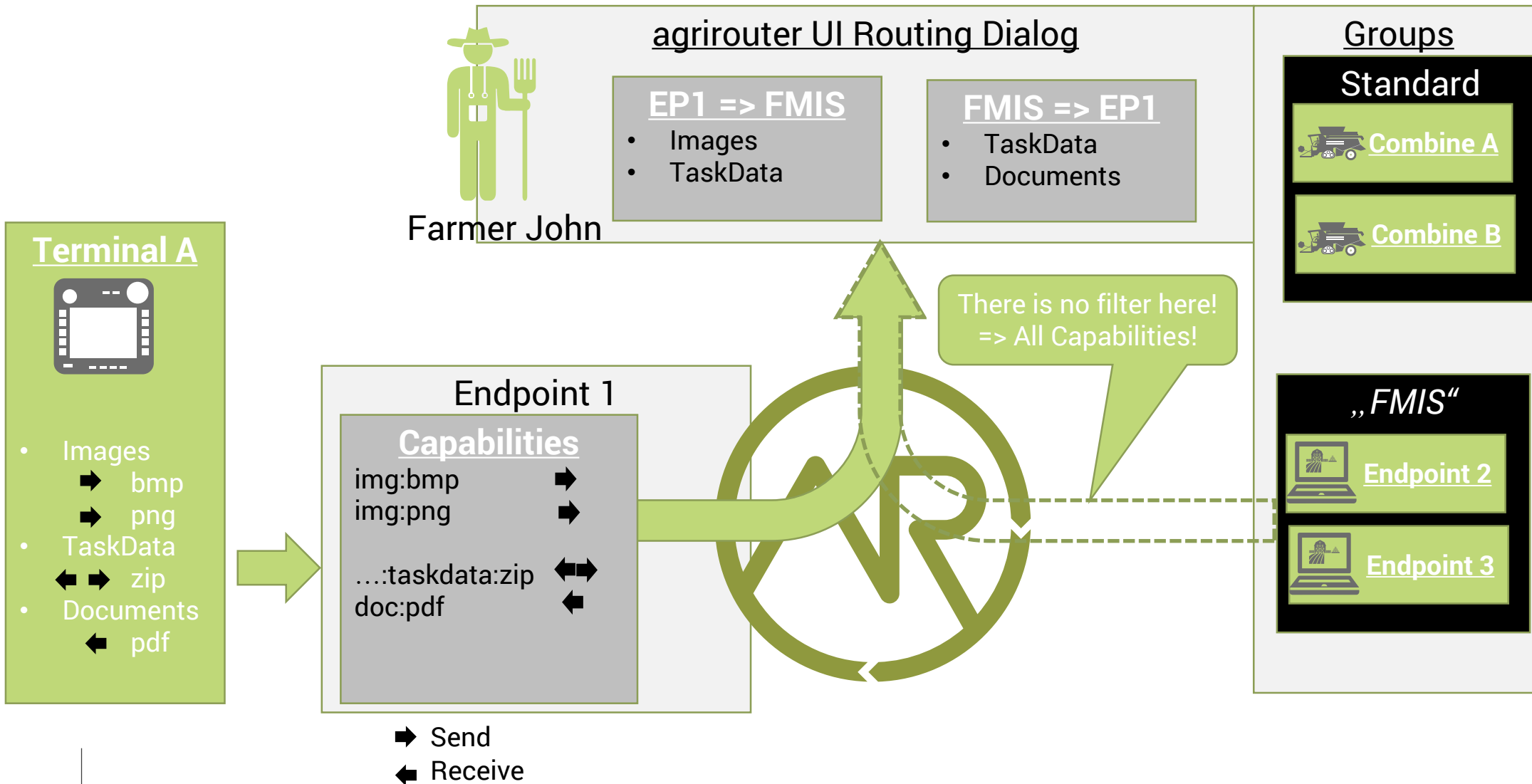
Routing: Routing between endpoint and group



Routing: Routing between endpoint and group



Routing: Routing between endpoint and group



Routing: Routing between endpoint and group

„Terminal A may send images and receive TaskData and documents“



Farmer John

agrirouter UI Routing Dialog

EP1 => FMIS

- Images
- TaskData

FMIS => EP1

- TaskData
- Documents

Groups

Standard



Combine A



Combine B

„FMIS“



Endpoint 2



Endpoint 3

Terminal A



- Images
 - ➡ bmp
 - ➡ png
- TaskData
 - ↔ zip
- Documents
 - ← pdf

Endpoint 1

Capabilities

- img:bmp ➡
- img:png ➡
- ...:taskdata:zip ↔
- doc:pdf ←

There is no filter here!
=> All Capabilities!

➡ Send
← Receive

Routing: Routing between endpoint and group

„Terminal A may send images and receive TaskData and documents“



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EP1 => FMIS

- ✓ Images
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Combine A



Combine B

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Endpoint 2



Endpoint 3

Terminal A



- Images
 - ➡ bmp
 - ➡ png
- TaskData
 - ↔ zip
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 - ← pdf

Endpoint 1

Capabilities

img:bmp ➡
img:png ➡

...:taskdata:zip ↔
doc:pdf ←

There is no filter here!
=> All Capabilities!

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Routing: Routing between endpoint and group

„Terminal A may send images and receive TaskData and documents“



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agrirouter UI Routing Dialog

EP1 => FMIS

- ✓ Images
- ✗ TaskData

FMIS => EP1

- TaskData
- Documents

Groups

Standard



Combine A



Combine B

„FMIS“



Endpoint 2



Endpoint 3

Terminal A



- Images
 - ➡ bmp
 - ➡ png
- TaskData
 - ↔ zip
- Documents
 - ← pdf

Endpoint 1

Capabilities

- img:bmp ➡
- img:png ➡
- ...:taskdata:zip ↔
- doc:pdf ←

There is no filter here!
=> All Capabilities!

- ➡ Send
- ← Receive

Routing: Routing between endpoint and group

„Terminal A may send images and receive TaskData and documents“



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agrirouter UI Routing Dialog

EP1 => FMIS

- ✓ Images
- ✗ TaskData

FMIS => EP1

- ✓ TaskData
- Documents

Groups

Standard



Combine A



Combine B

„FMIS“



Endpoint 2



Endpoint 3

Terminal A



- Images
 - ➡ bmp
 - ➡ png
- TaskData
 - ↔ zip
- Documents
 - ← pdf

Endpoint 1

Capabilities

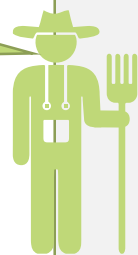
- img:bmp ➡
- img:png ➡
- ...:taskdata:zip ↔
- doc:pdf ←

There is no filter here!
=> All Capabilities!

- ➡ Send
- ← Receive

Routing: Routing between endpoint and group

„Terminal A may send images and receive TaskData and documents“



Farmer John

agrirouter UI Routing Dialog

EP1 => FMIS

✓ Images
✗ TaskData

FMIS => EP1

✓ TaskData
✓ Documents

Groups

Standard



Combine A



Combine B

„FMIS“

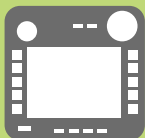


Endpoint 2



Endpoint 3

Terminal A



- Images
 - ➡ bmp
 - ➡ png
- TaskData
 - ↔ zip
- Documents
 - ← pdf

Endpoint 1

Capabilities

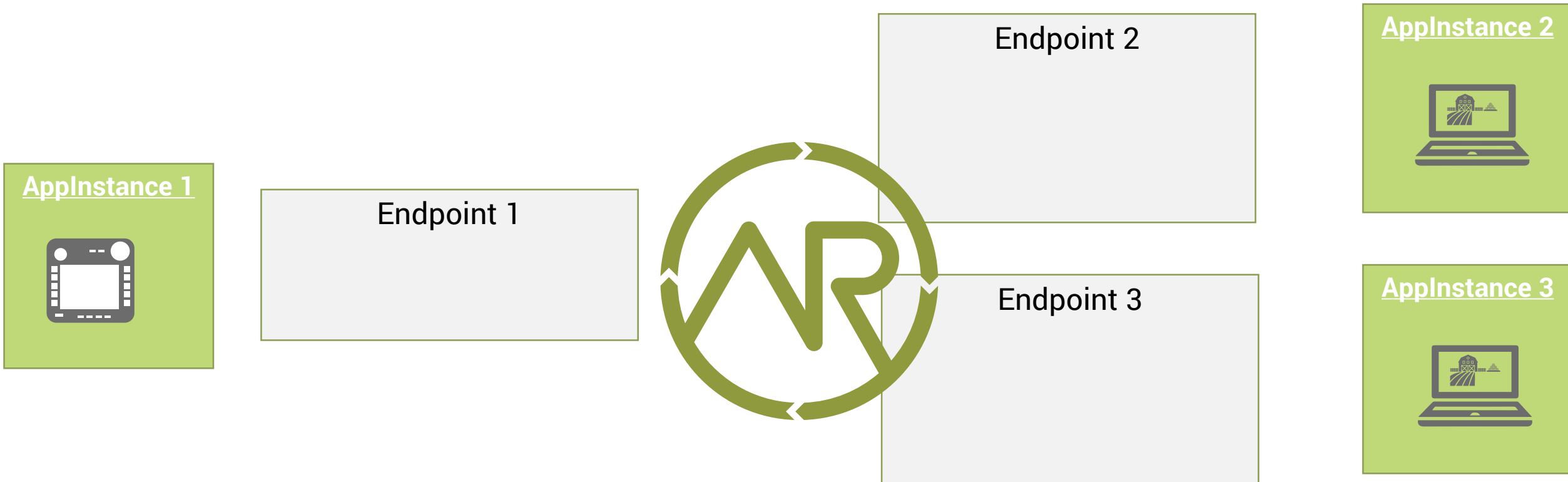
img:bmp ➡
img:png ➡

...:taskdata:zip ↔
doc:pdf ←

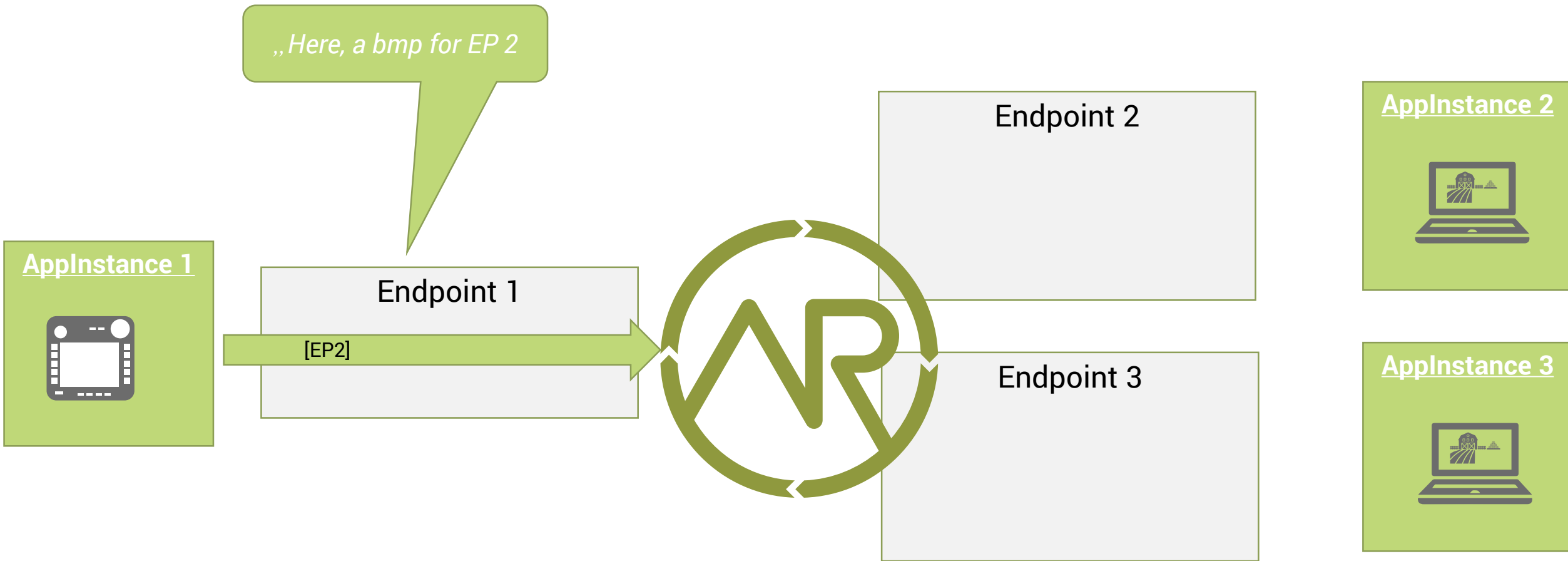
There is no filter here!
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➡ Send
← Receive

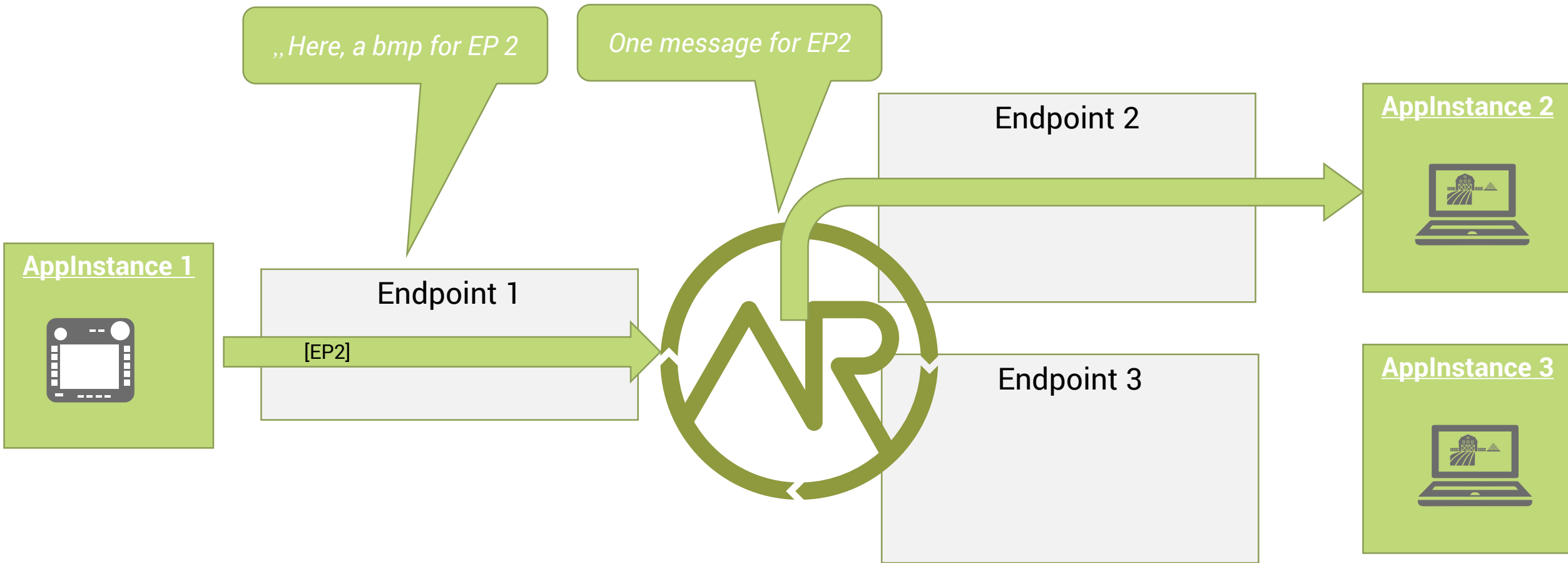
Addressed messages



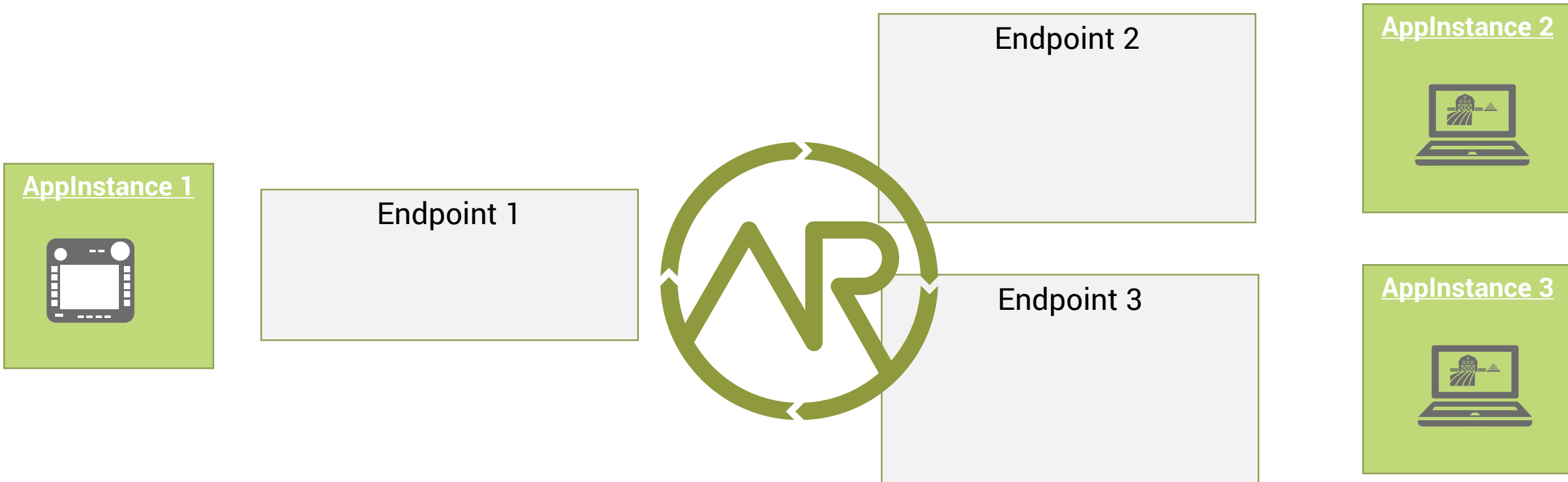
Addressed messages



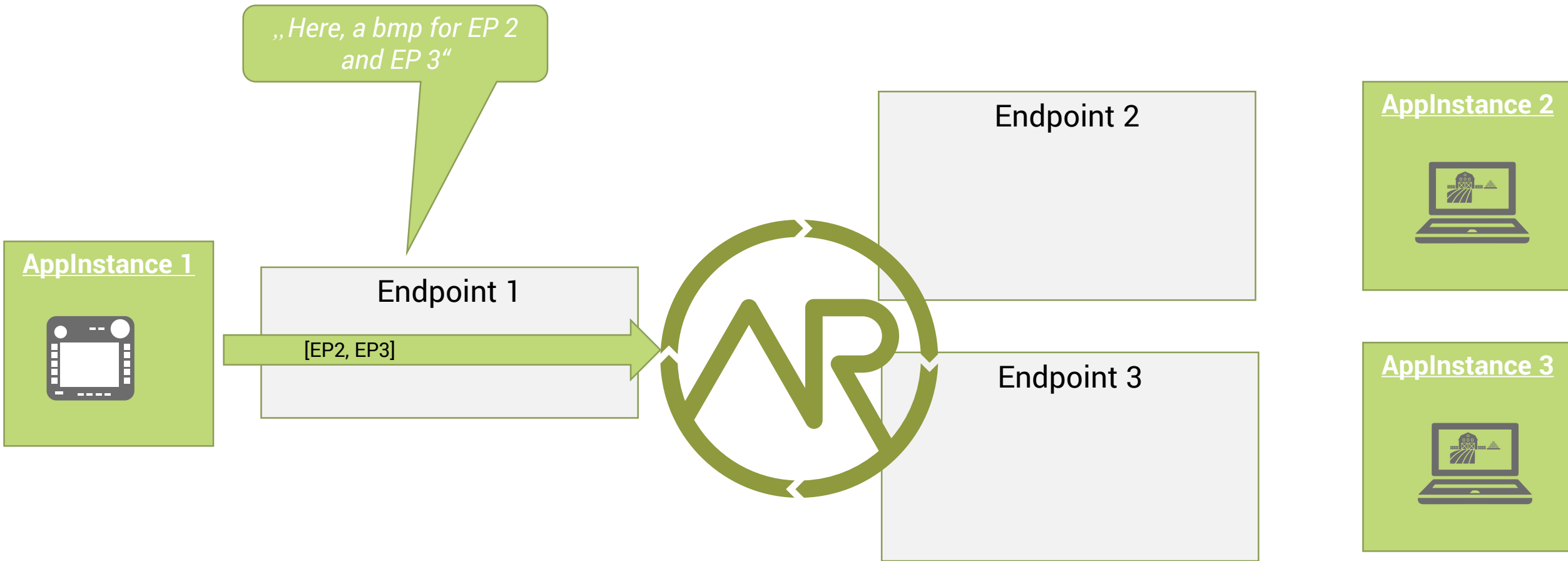
Addressed messages



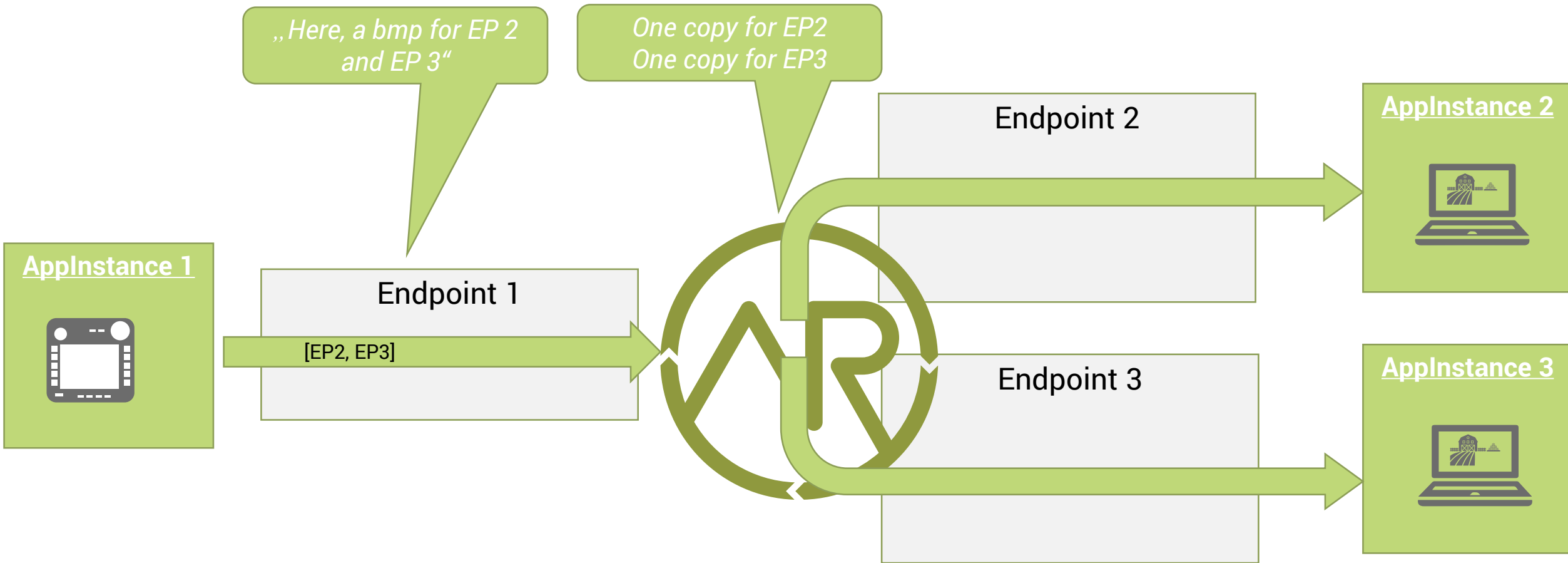
Addressed messages



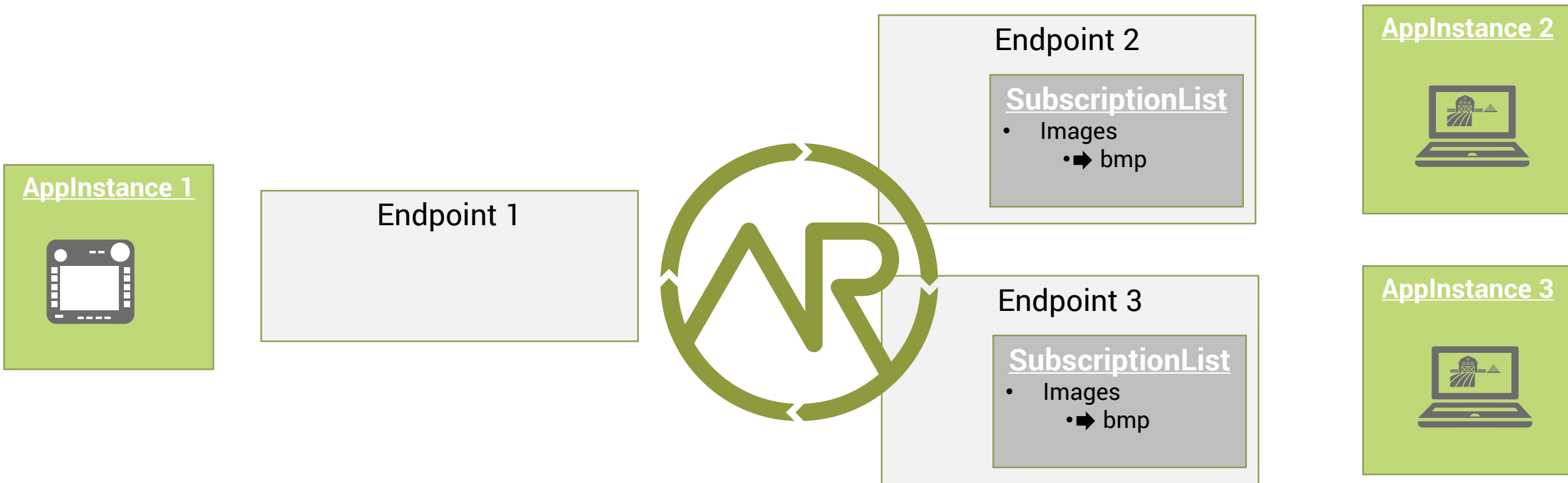
Addressed messages



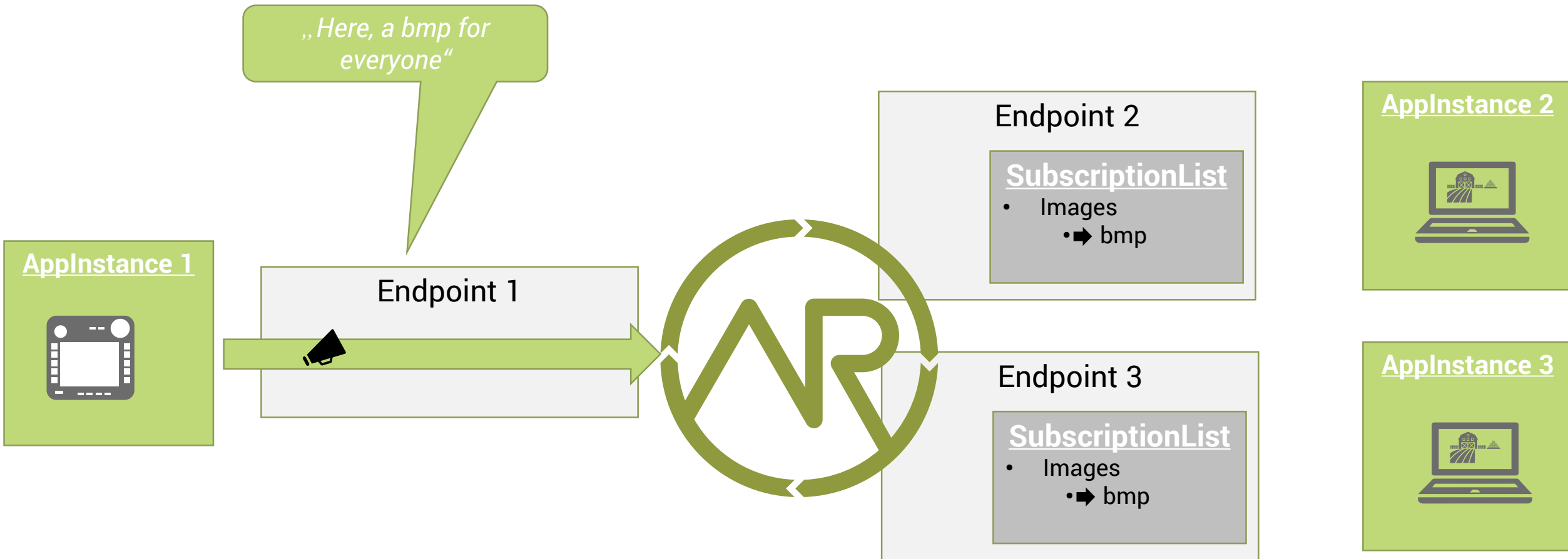
Addressed messages



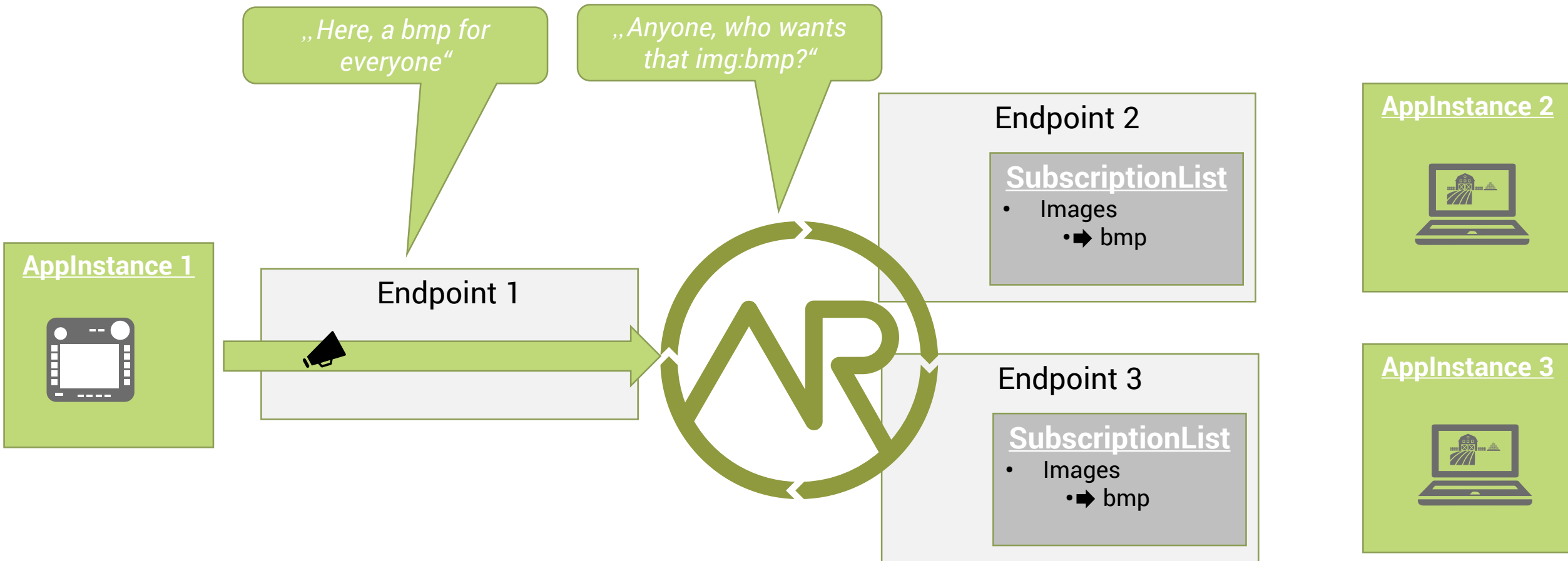
Published messages and Subscriptions



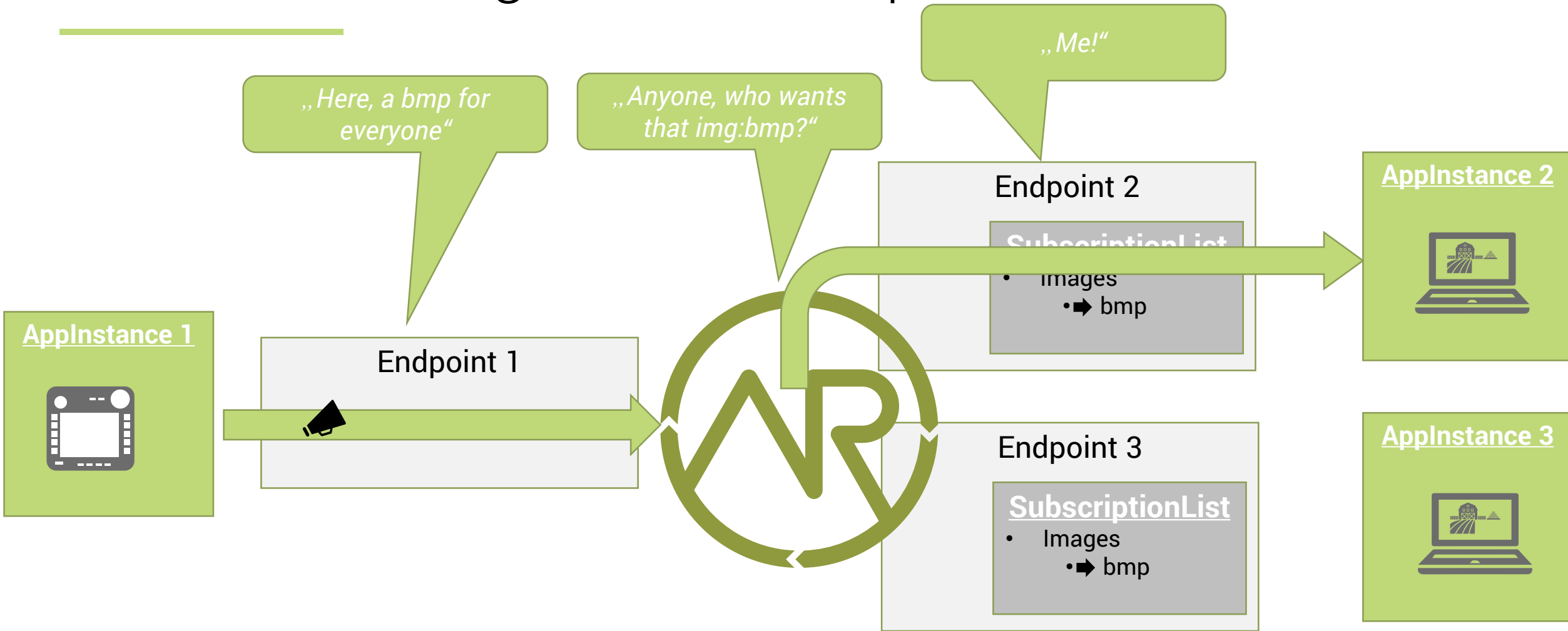
Published messages and Subscriptions



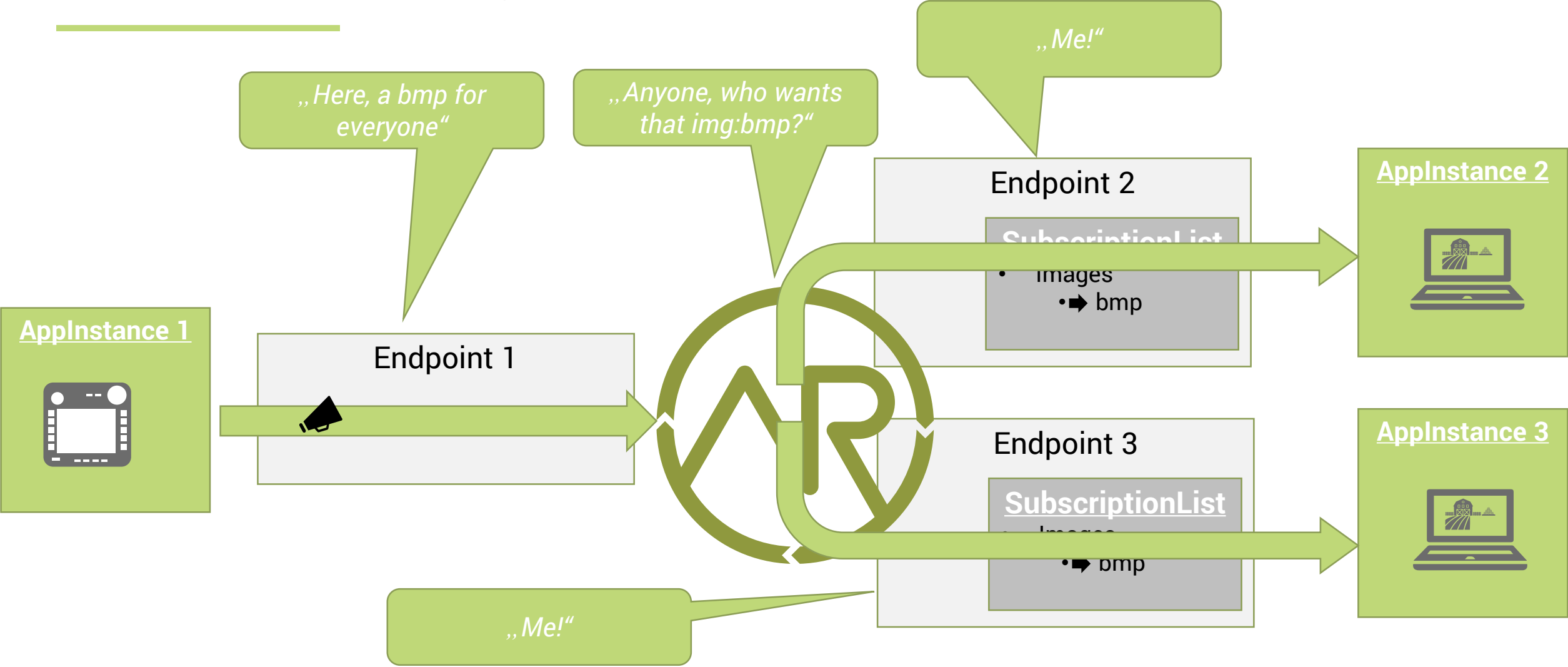
Published messages and Subscriptions



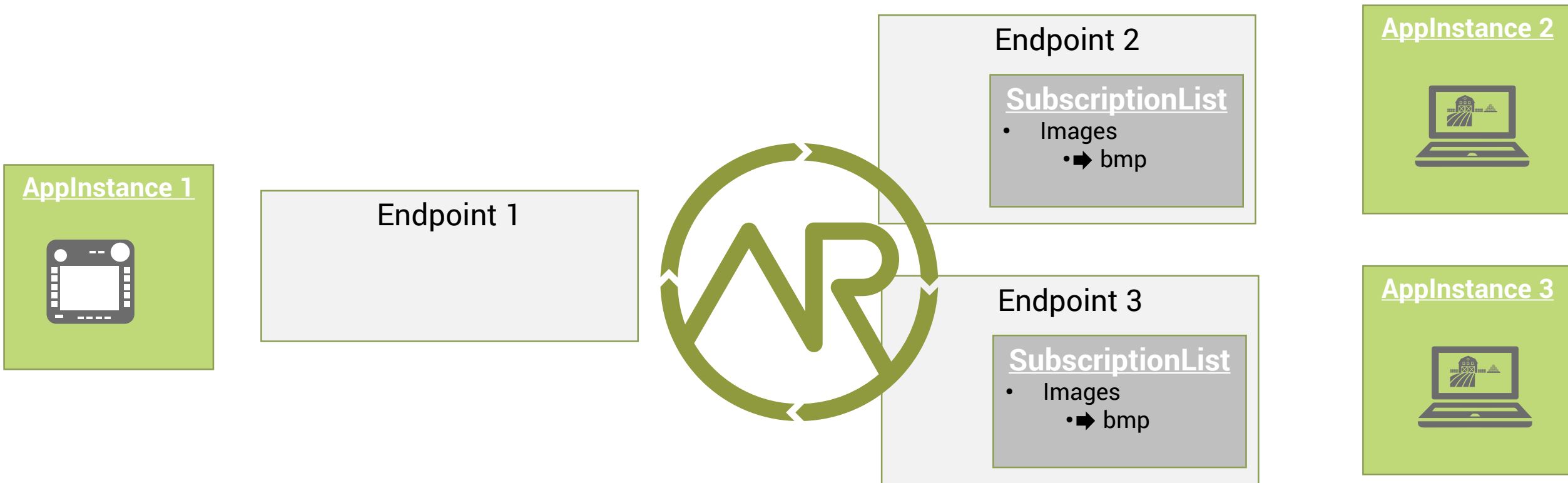
Published messages and Subscriptions



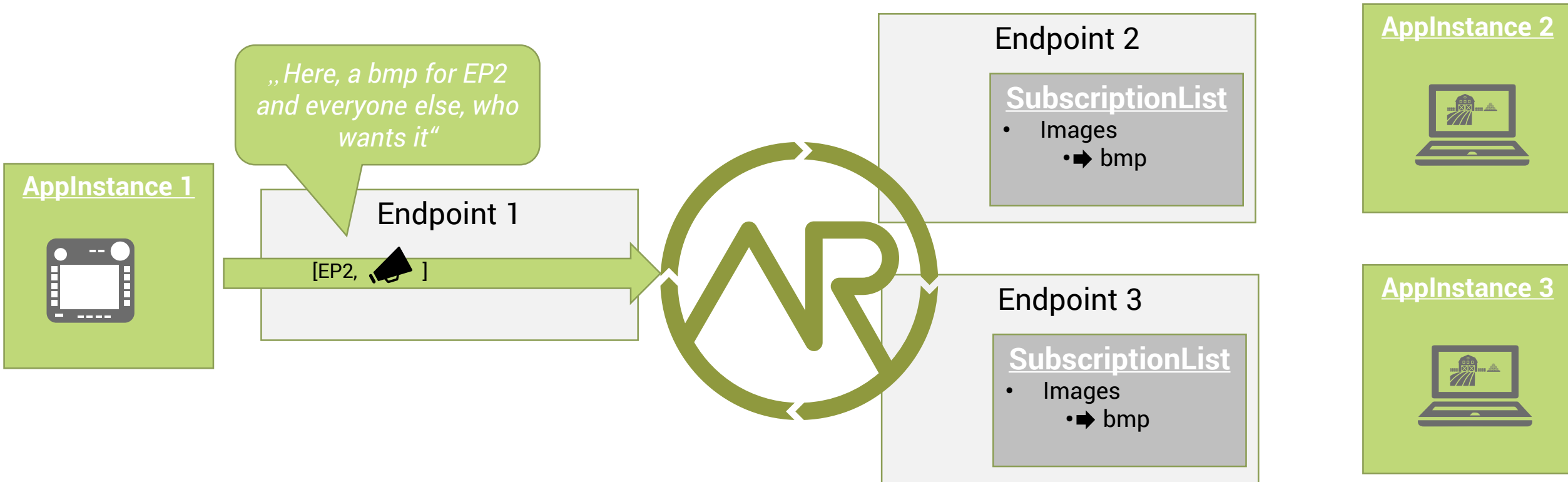
Published messages and Subscriptions



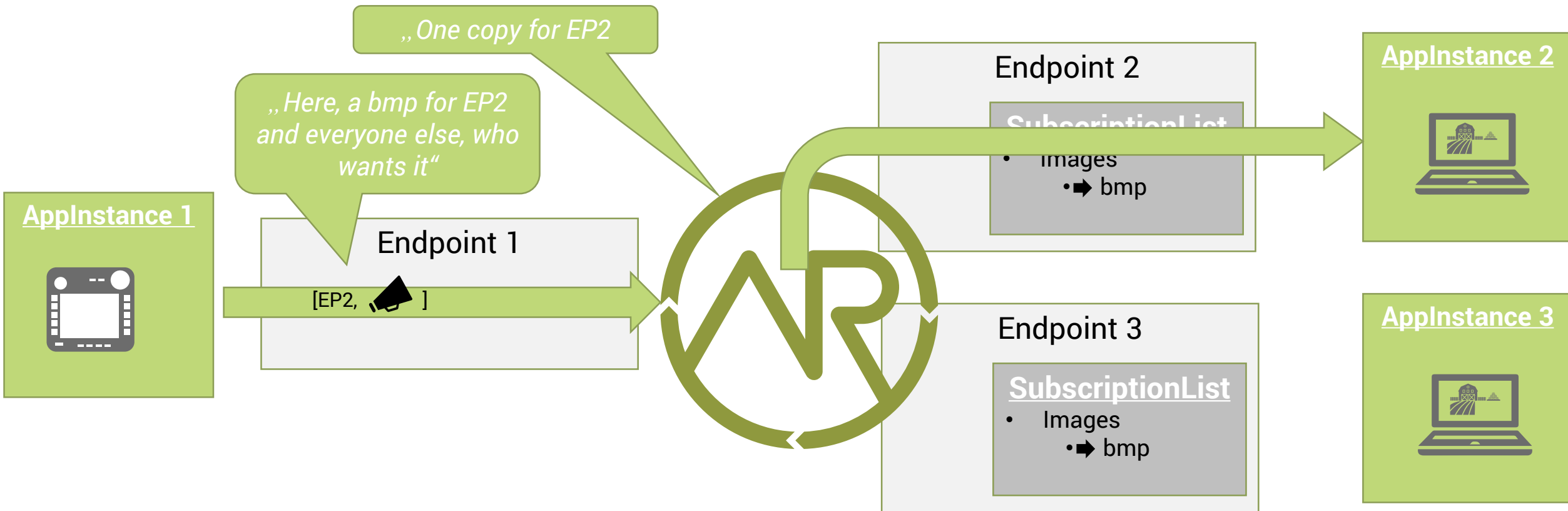
Published messages and Subscriptions



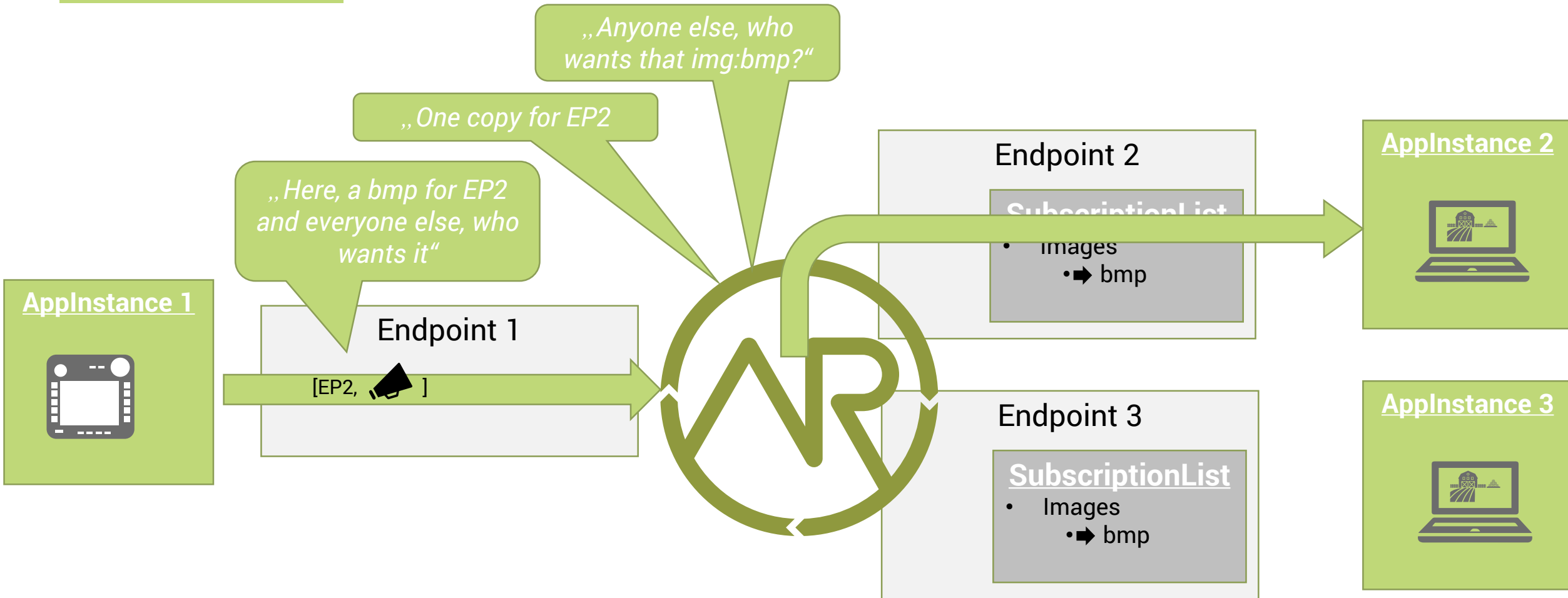
Published messages and Subscriptions



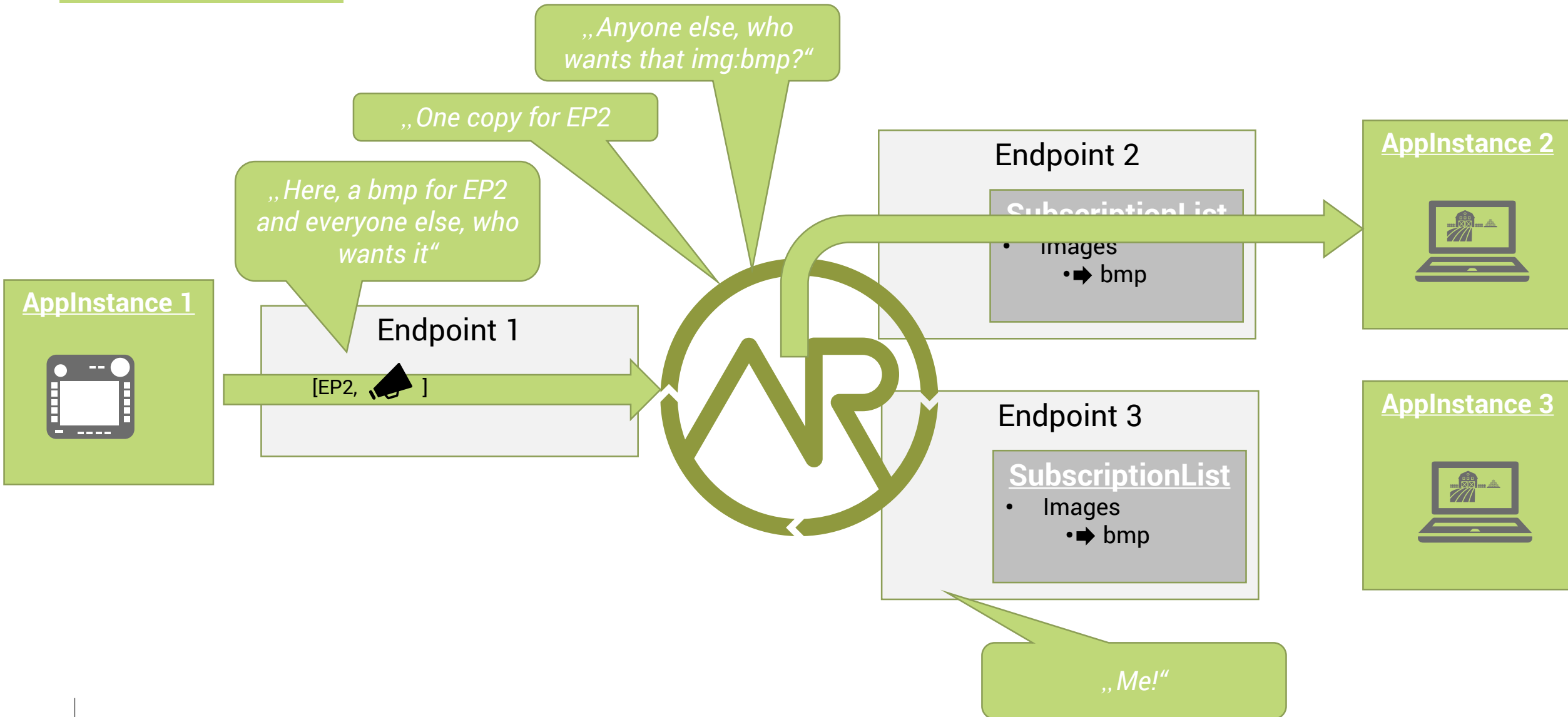
Published messages and Subscriptions



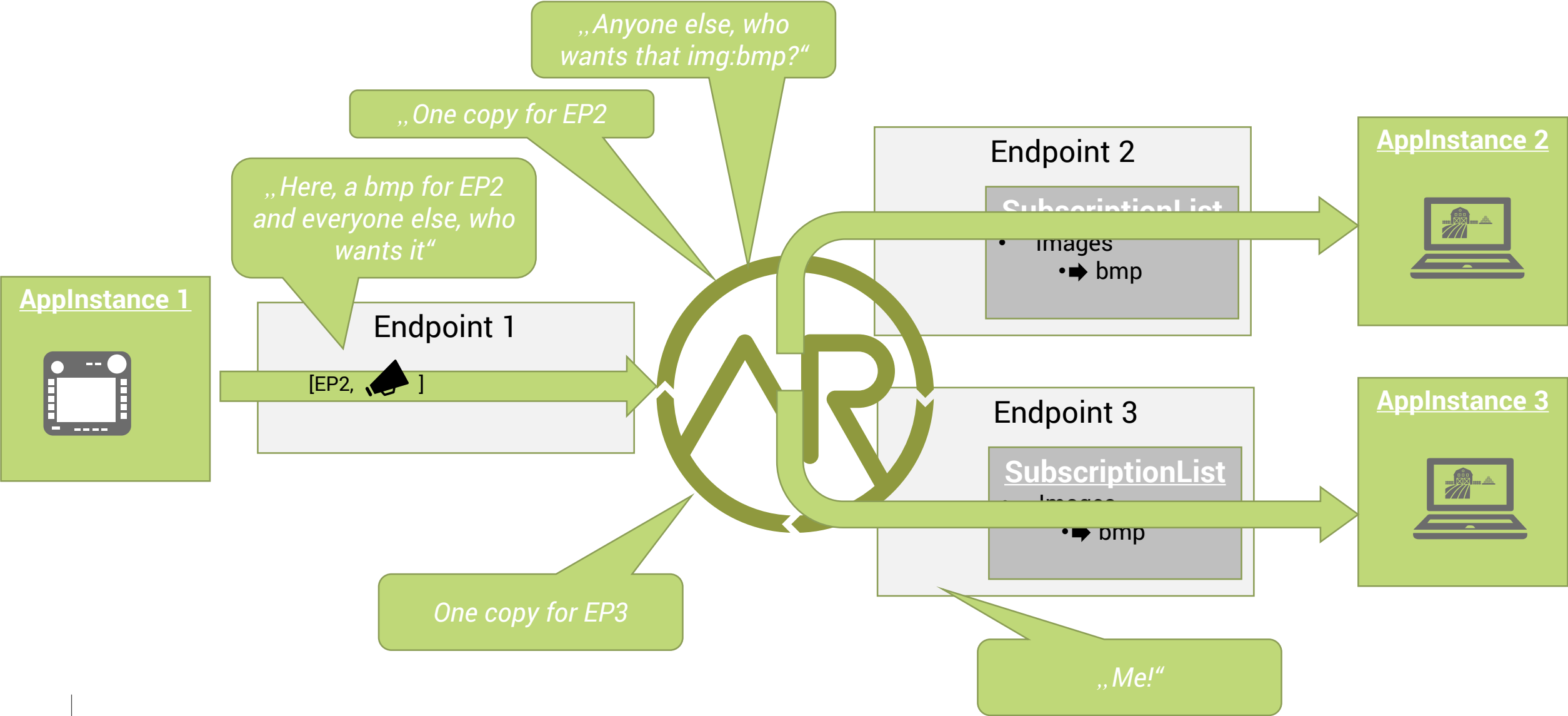
Published messages and Subscriptions



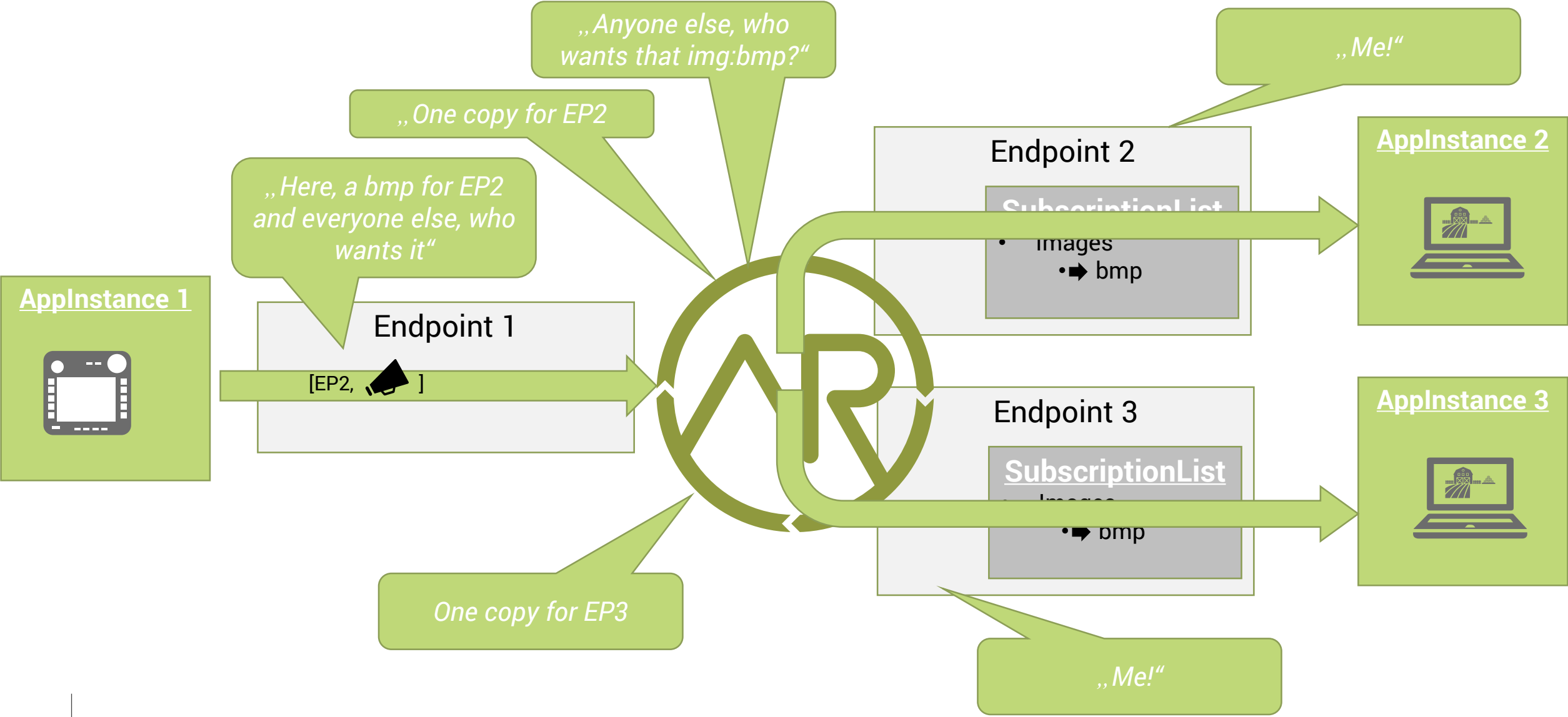
Published messages and Subscriptions



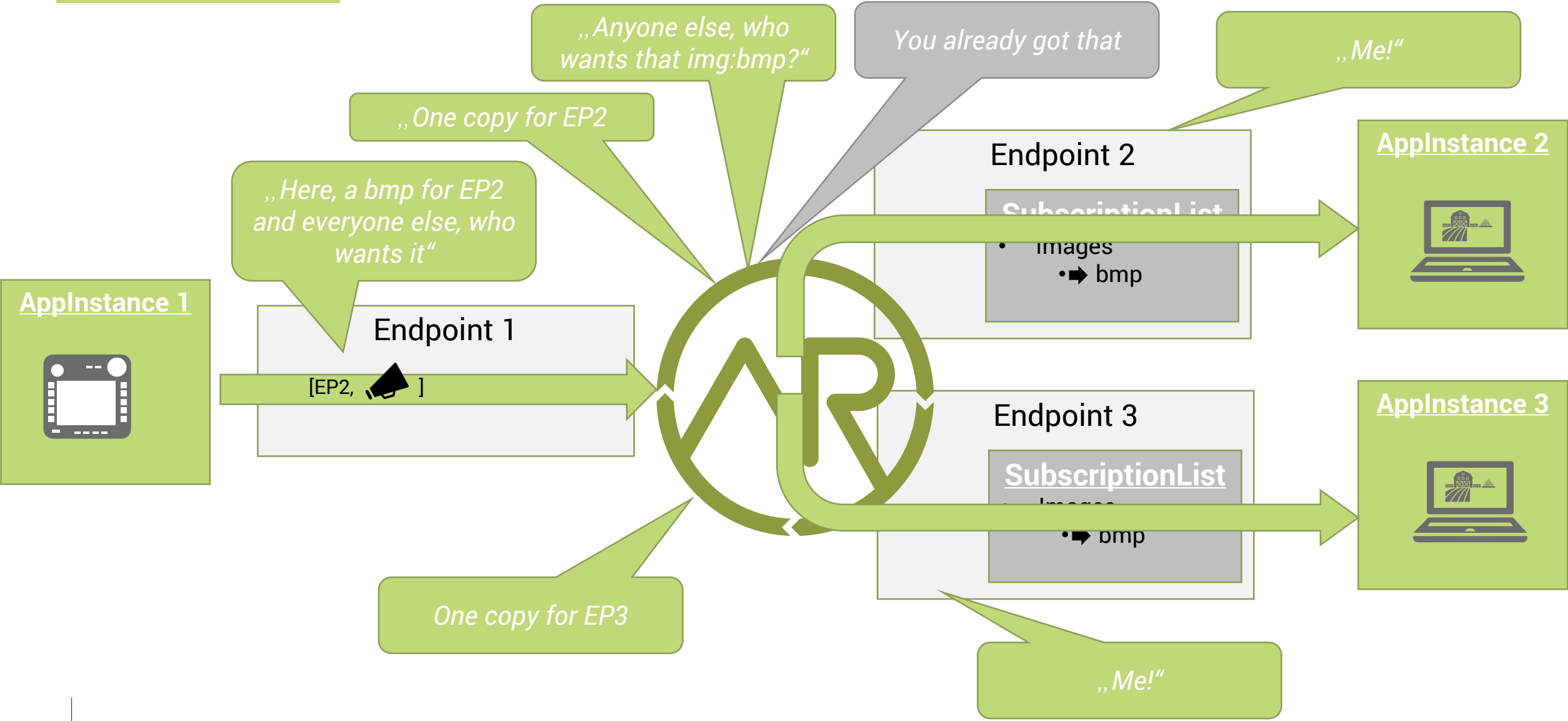
Published messages and Subscriptions



Published messages and Subscriptions



Published messages and Subscriptions





agrirouter

Thank you for the attention!

For more Information visit www.my-agrirouter.com

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