

Integration of Heterogeneous Services and Things into Choreographies

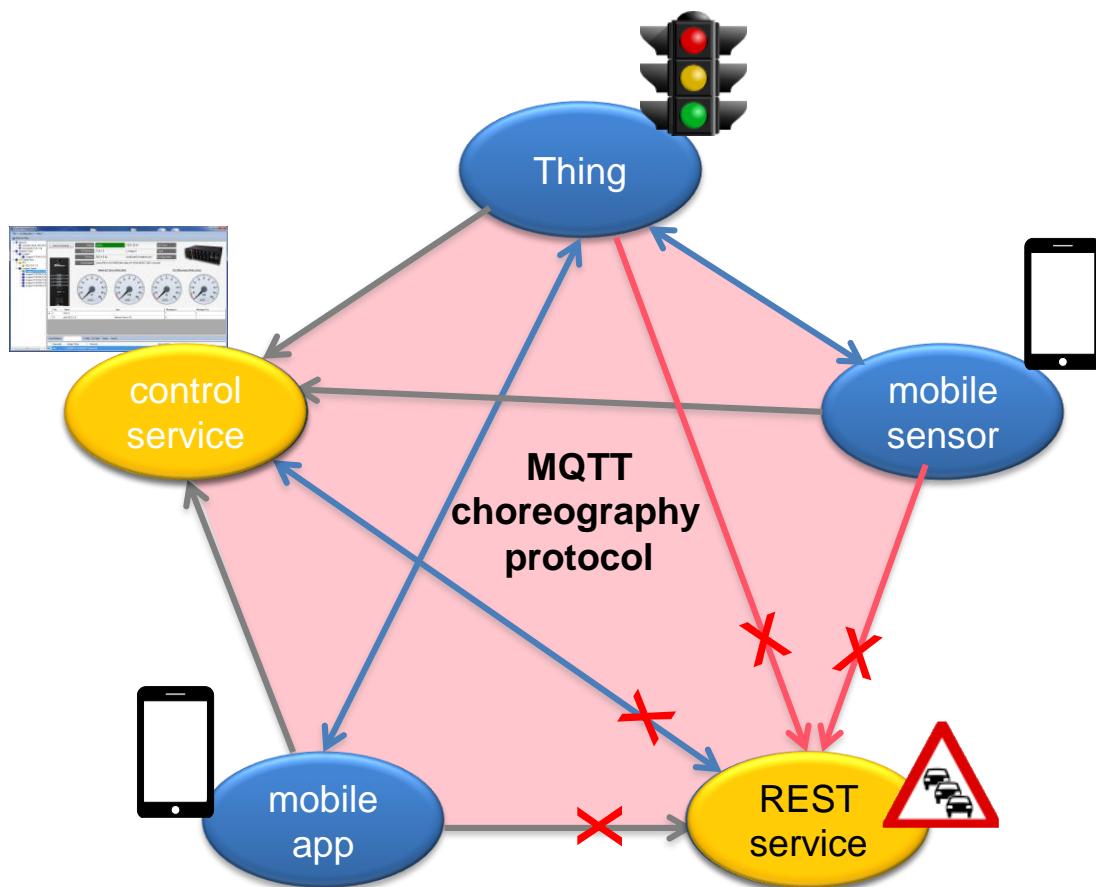
**Georgios Bouloukakis, Nikolaos Georgantas,
Siddhartha Dutta & Valérie Issarny**

ICSOC, Banff, 10-13 October 2016

MiMove project-team
Inria Paris, France

Mi Move
Middleware on the Move

Motivation

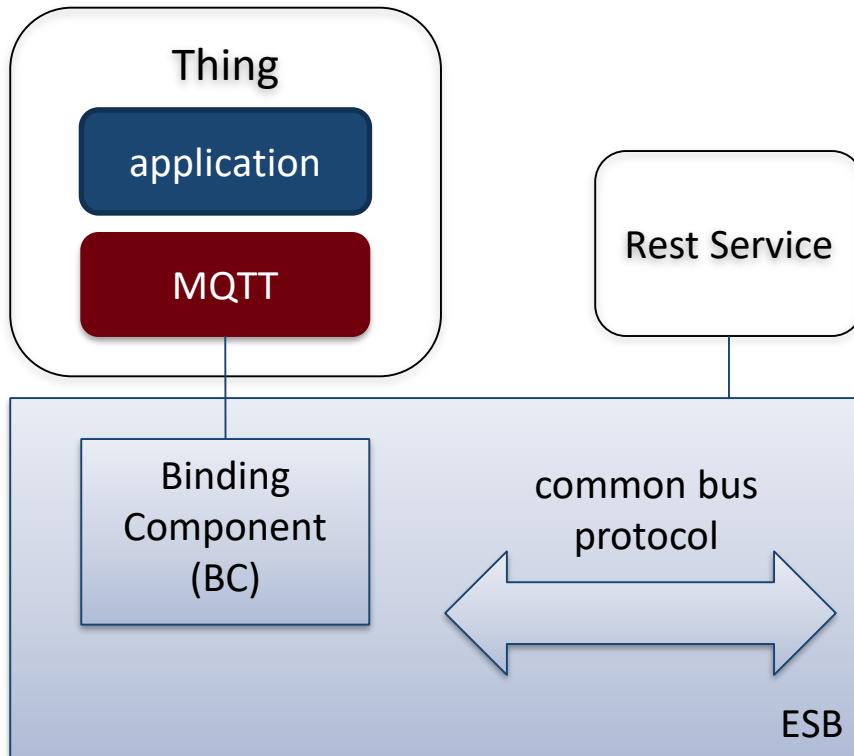


Middleware Protocols:

- DPWS
- REST
- CoAP
- MQTT
- WebSockets
- XMPP
- AMQP
- ZeroMQ
- Semispace

State-of-the-art protocol interoperability

Enterprise Service Bus (ESB)

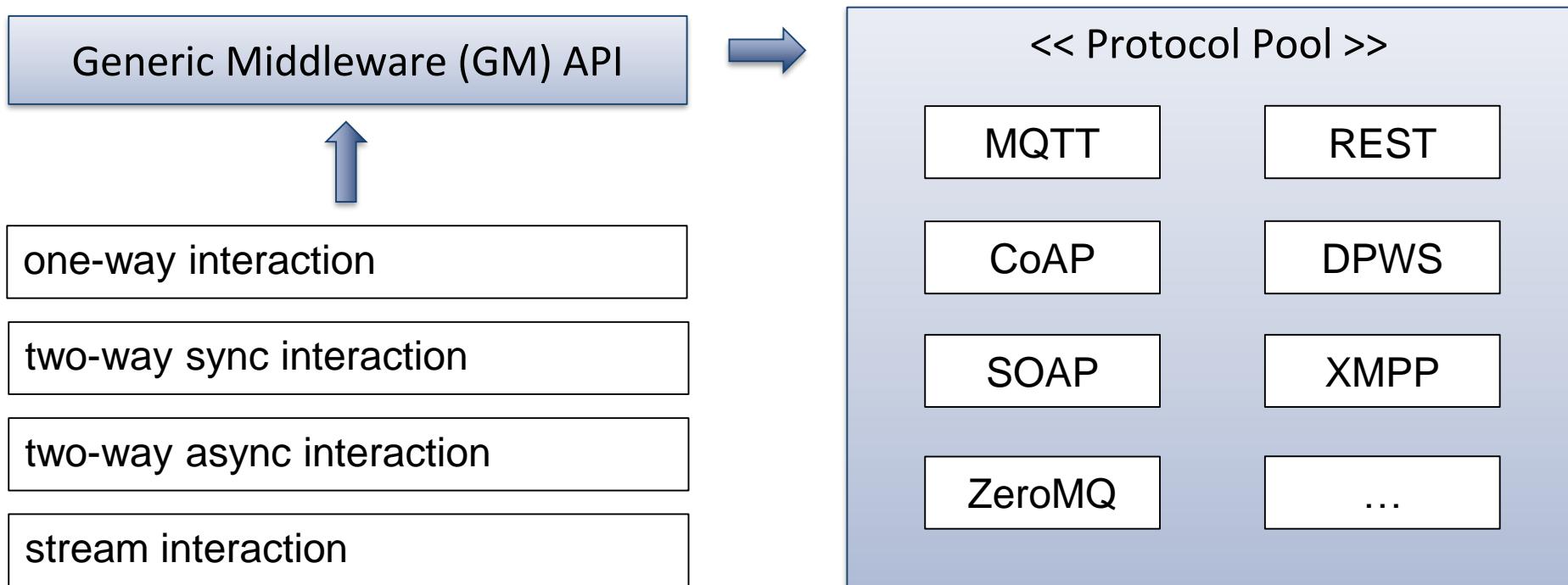


Practical cross-protocol approaches:

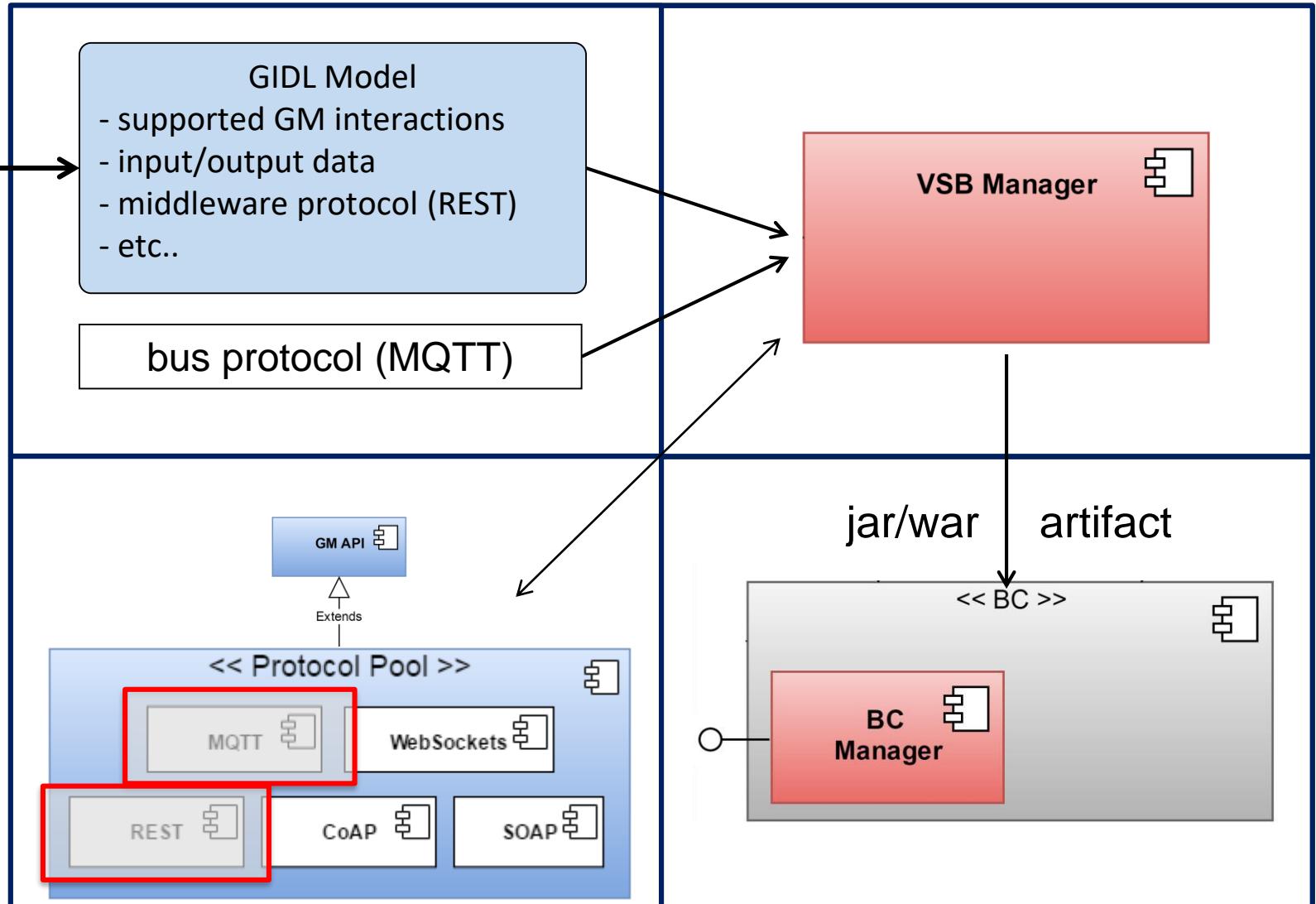
- Typically apply to specific middleware implementations
- Plenty of middleware (IoT) protocols
- The bus protocol may limit the performance

Our proposed solution

- Applies the ESB paradigm with Binding Components (BCs)
- Automated BC synthesis
- Flexible, is using any bus protocol



Synthesis Process



Thank you

View demo: <https://youtu.be/UgfM3810RS8>



<https://www.inria.fr>



<https://mimove.inria.fr>