

# Finding new routes for integrating Multi-Agent Systems using Apache Camel<sup>1</sup>

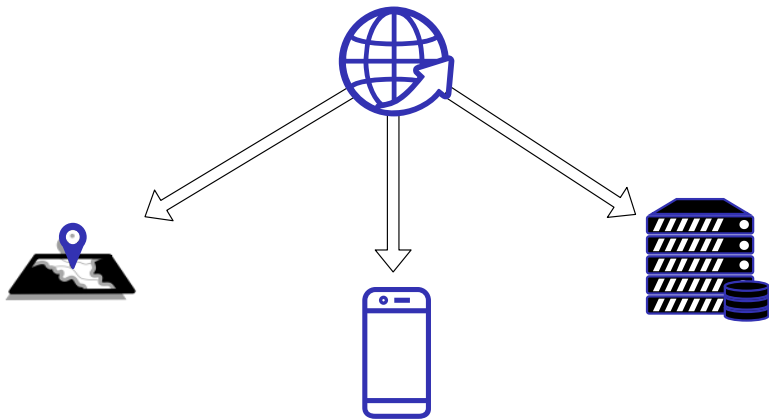
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Jomi F. Hübner<sup>1</sup>, Luis P. A. Lampert<sup>1</sup>, Otávio A. Matoso<sup>1</sup>,  
Maicon R. Zatelli<sup>1</sup>

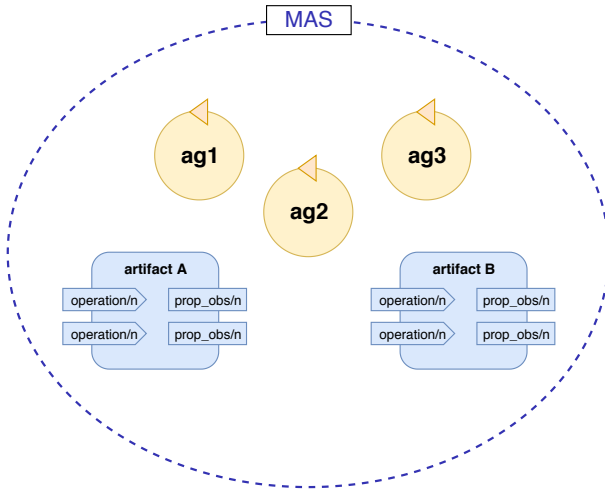
<sup>1</sup>Federal University of Santa Catarina (UFSC)

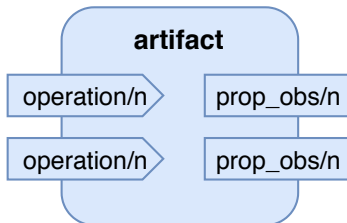
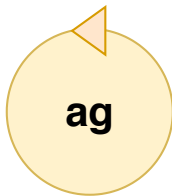
<sup>2</sup>Federal Institute of Santa Catarina (IFSC)

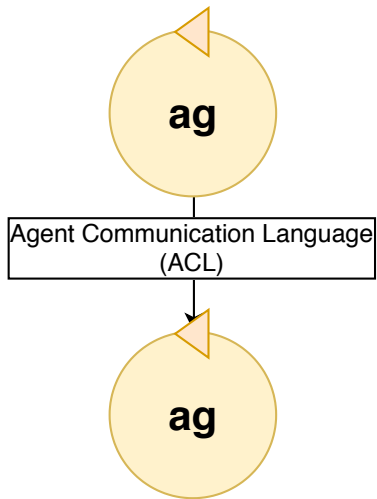
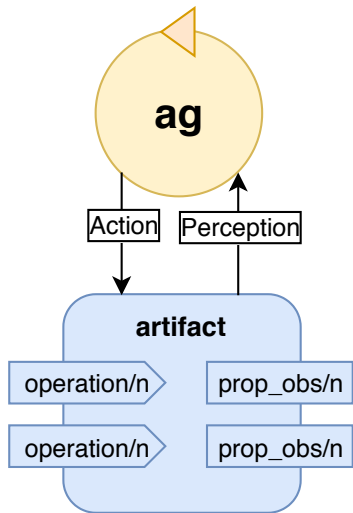
May 2019

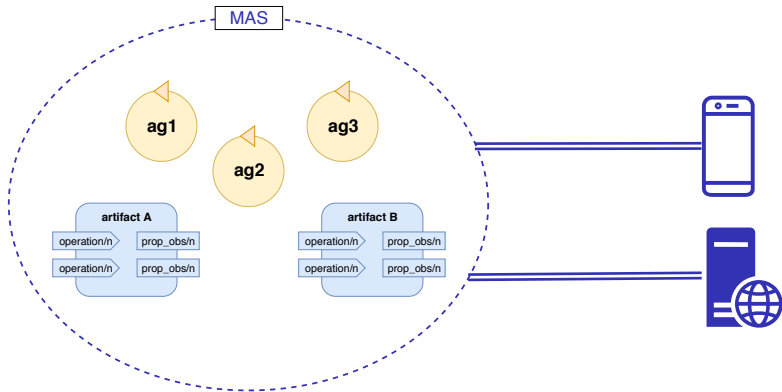


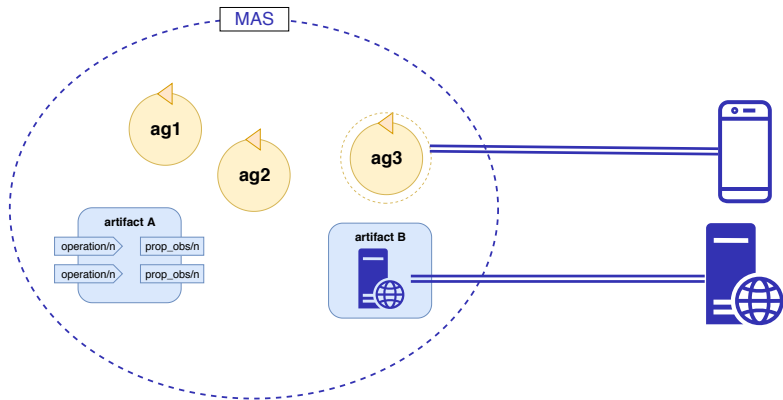


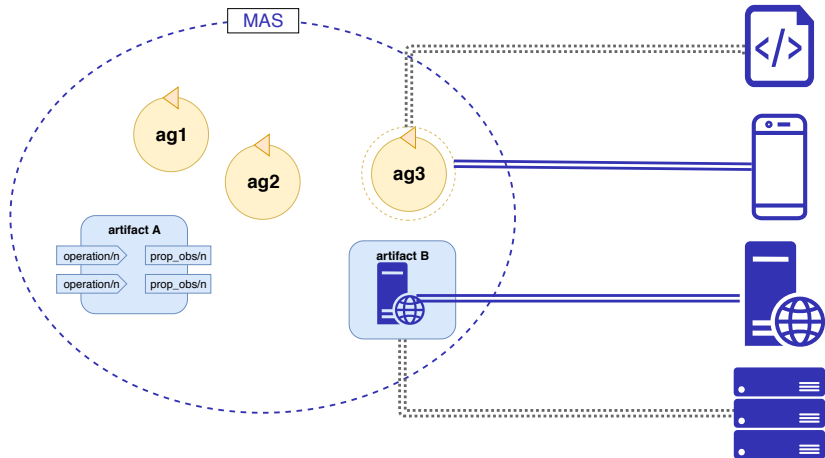




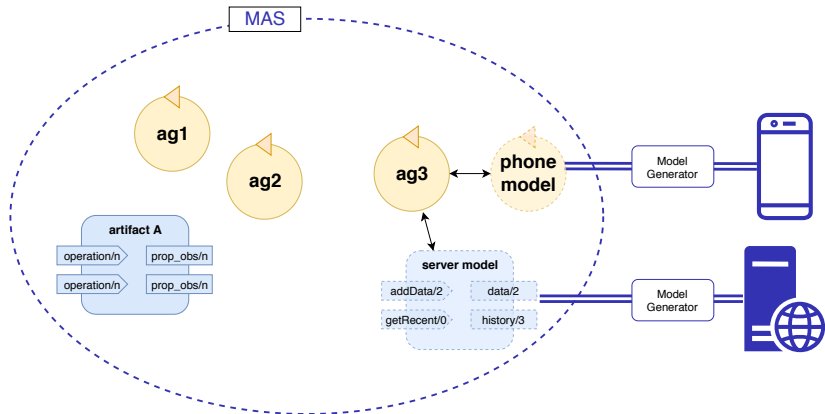


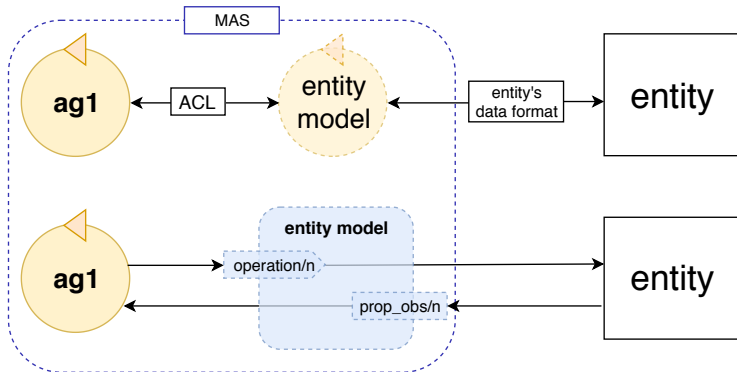


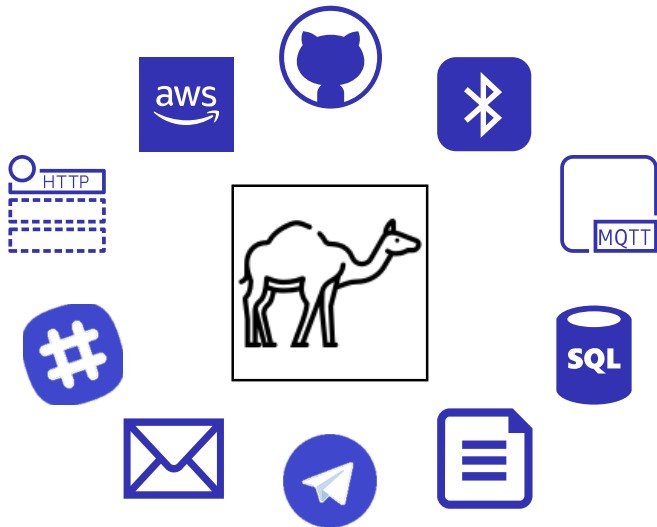


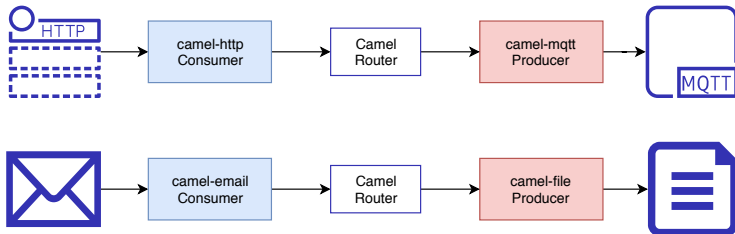
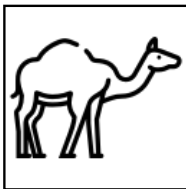


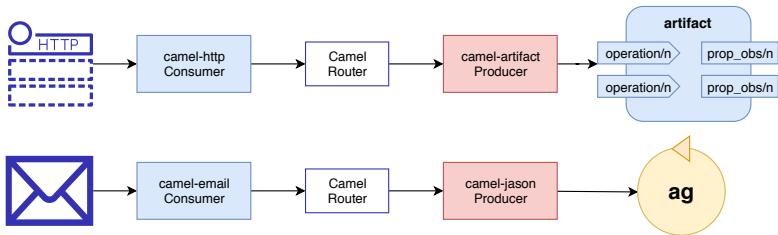
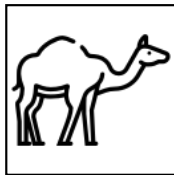


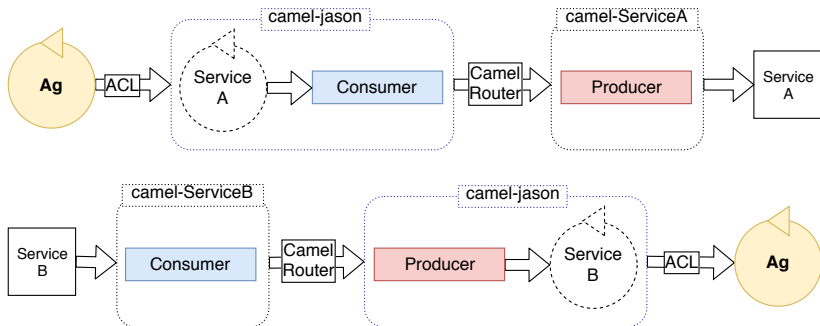


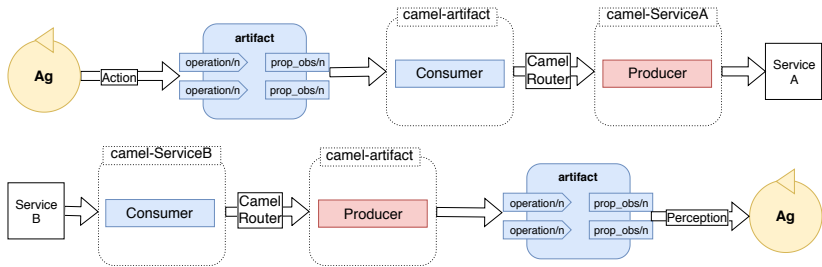






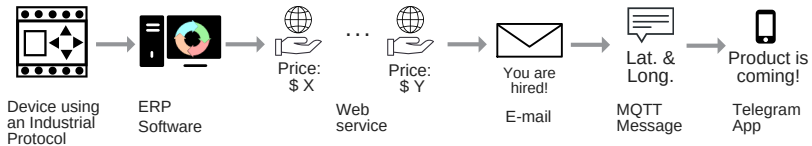


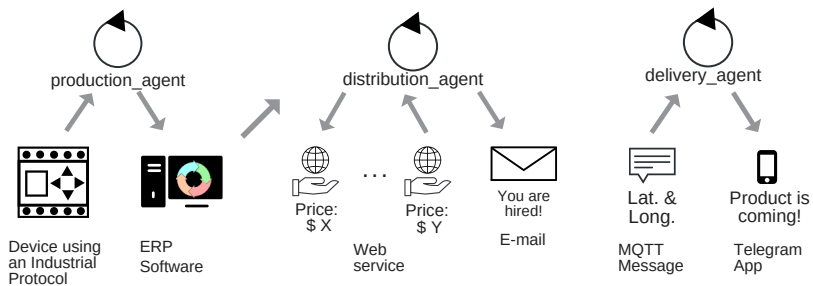


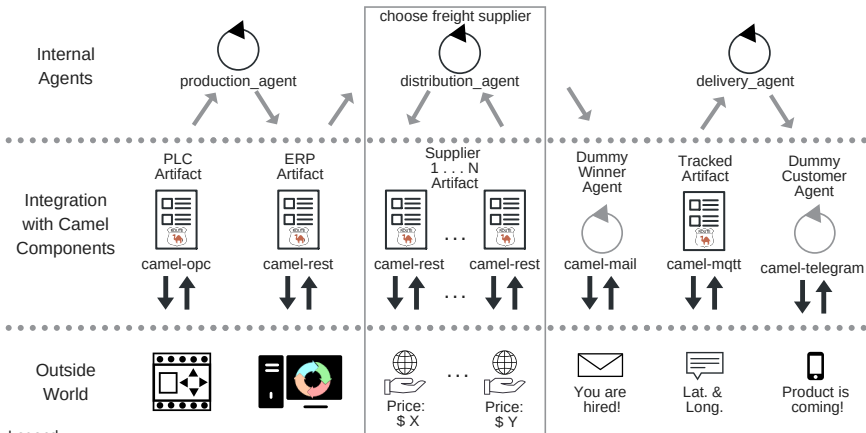






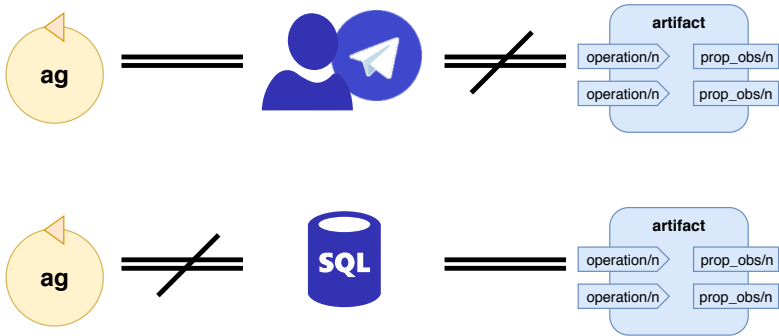


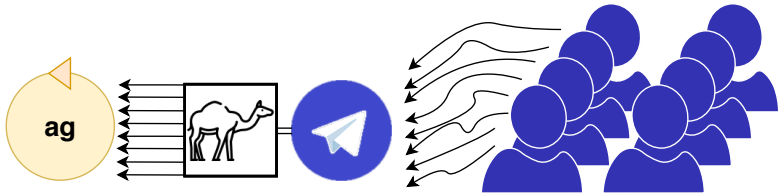


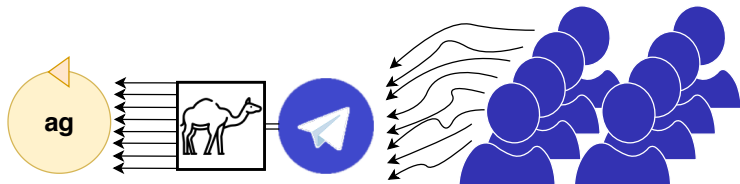


Legend

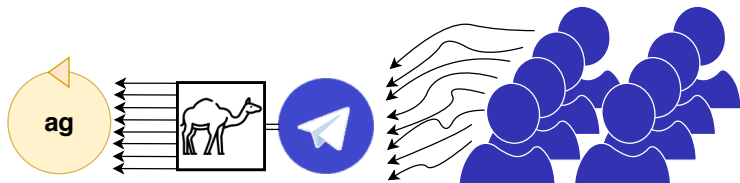




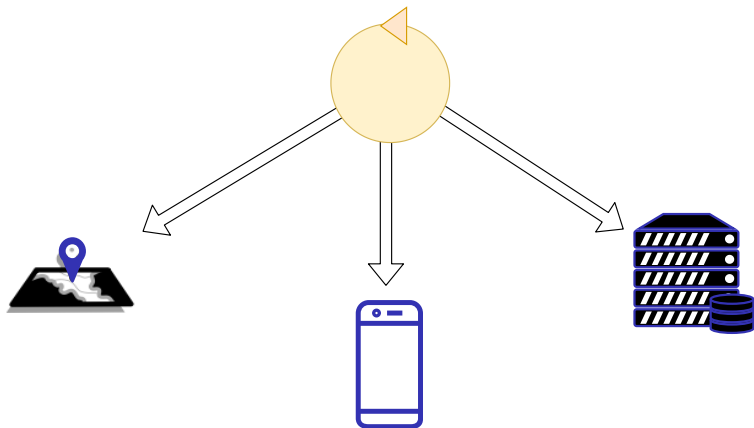




```
1 <routes xmlns="http://camel.apache.org/schema/spring" >
2   <route>
3     <from uri="telegram:bots/12345:AAEkIRH0IPvpi"/>
4     <to uri="jason:client"/>
5   </route>
6 </routes>
```






```
1 <routes xmlns="http://camel.apache.org/schema/spring" >
2   <route>
3     <from uri="telegram:bots/12345:AAEkIRH0IPvpi"/>
4     <setBody>
5       <simple>message(telegram, "${in.body}")</simple>
6     </setBody>
7     <to uri="jason:client"/>
8   </route>
9 </routes>
```







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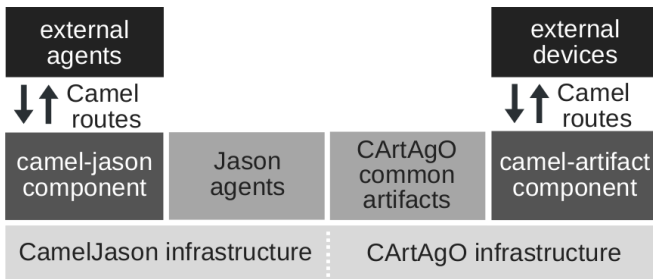
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## Appendix

Inspect the current state of the agent's belief base, plan library and relations:



Note: (i) graph allow click to navigate; (ii) Shows current events and intentions.