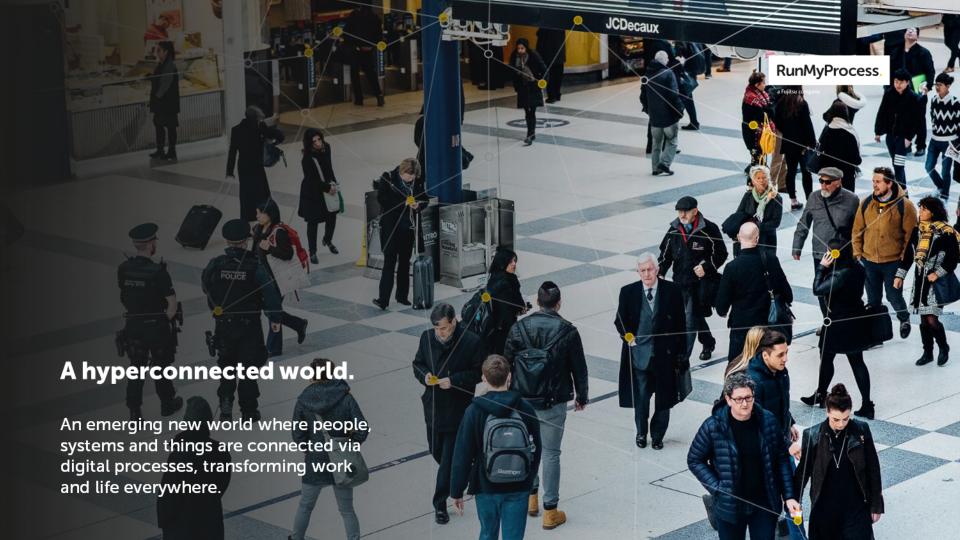


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Fast modelling & deployment of IoT applications from the cloud

Dr. lan Thomas Chief Strategy Officer

Digital problem solvers...



RunMyProcess



An innovation subsidiary of Fujitsu providing a

High productivity cloud platform for building connected, process-centric apps



- Focus on modelling
- UX, Process, Integration, Data
- · Library of connectors for on-premise, cloud
- One-click global deployment
- Extended to IoT with additional connectors

Challenges of building digital systems with IoT



From a selection of projects we learnt that connectivity is not enough



Need more intelligent devices



Need faster Development progress

An increasingly complex problem

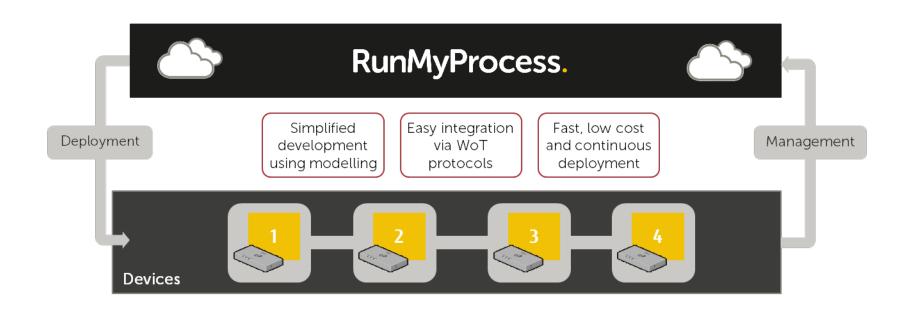


IoT-centric Cloud-centric Cloud Cloud

Our goal



Enable fast, agile modelling & deployment of IoT applications from the cloud.



Main components



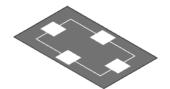
Cloud Platform

Device Registry Modelling Canvas DSL Deployment



Model concepts

Domain Meta-model



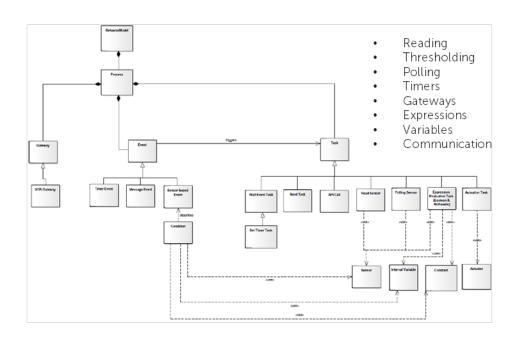
Device Platform

Device Registration DSL Deployment DSL Execution



Building a consistent meta-model







Extended modelling & process XML

Transformation

Javascript framework for RIOT API access



Leveraging LWM2M
& IPSO smart objects

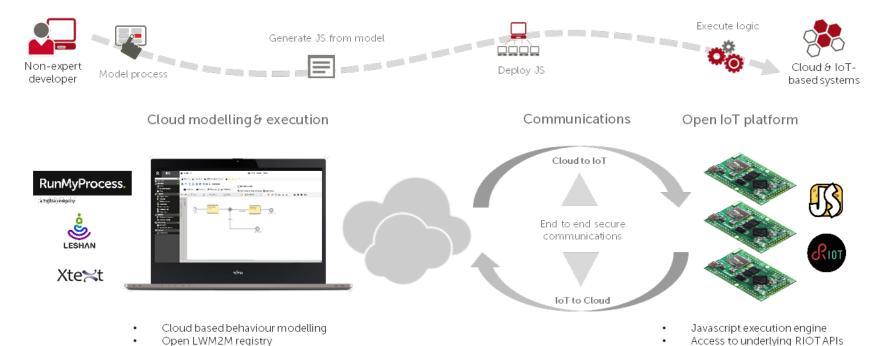
 Abstracted from concrete use cases

Solution architecture

JS generation & deployment



Easy (re) deployment



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Simplified development

Non-specialised developers can easily build, deploy and test IoT applications



Flexible deployment

Business logic can be built and flexibly deployed to both the cloud & devices



Easy integration

Devices easily integrated into wider systems using web protocols e.g. CoAP



Power optimized

Approach does not require expensive firmware updates and distribution



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