



digital  erk

The word "digital" is in a black sans-serif font. The letter "l" is replaced by a blue graphic element consisting of two overlapping triangles pointing towards each other, with a small blue Wi-Fi signal icon above the top triangle. The word "erk" is in a black sans-serif font.

Agenda

The Beginning



Founding

- Founded 11/2015 in Ratisbona
- 6 ADTF experts
- 0 clou



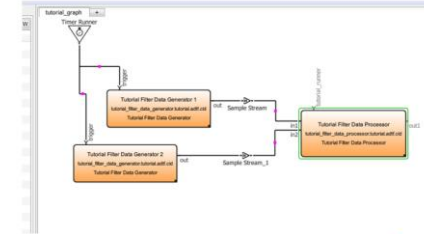
Goal

- Independent, sustainable development of ADTF
- World domination
- Oops... errr... Save the planet!

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digitalmerck

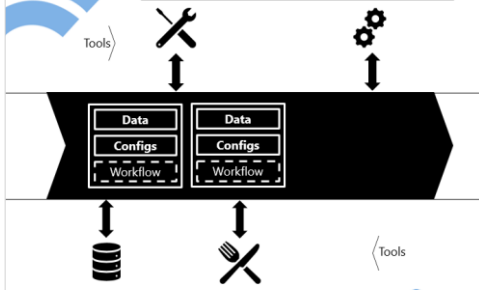
ADTF



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digitalmerck

FEP



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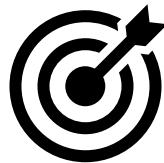
digitalmerck

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The Problem

Device	Amount	Wattage	Electrical Energy per year
Development Computers	20	300 W	12.480,0 kWh
Gigabit Ethernet switches	3	100 W	624,0 kWh
Small business servers	2	400 W	1.664,0 kWh
Continuous Integration servers	2	1100 W	4.576,0 kWh
Storage Arrays	2	750 W	3.120,0 kWh
WiFi Access Points	2	20 W	83,2 kWh
Meeting Room TVs	3	60 W	374,4 kWh
Backup Server	1	400 W	832,0 kWh
Mail Server	1	200 W	416,0 kWh
Web Server	1	200 W	416,0 kWh
		Total:	24.585,6 kWh





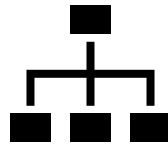
The Solution



Collaborate in development



Populate technologies



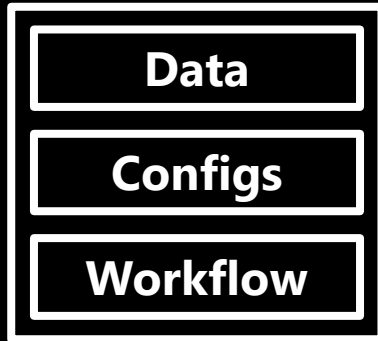
Integrate existing solutions

The Vision

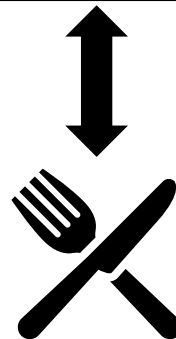
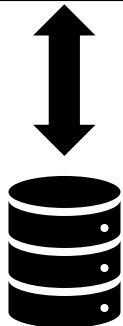
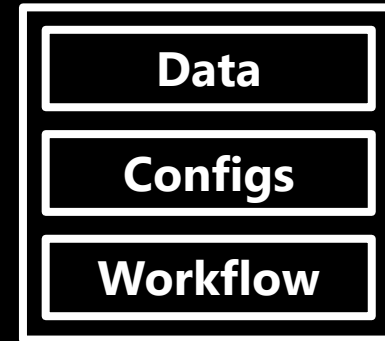
Services/Tools



Acquisition

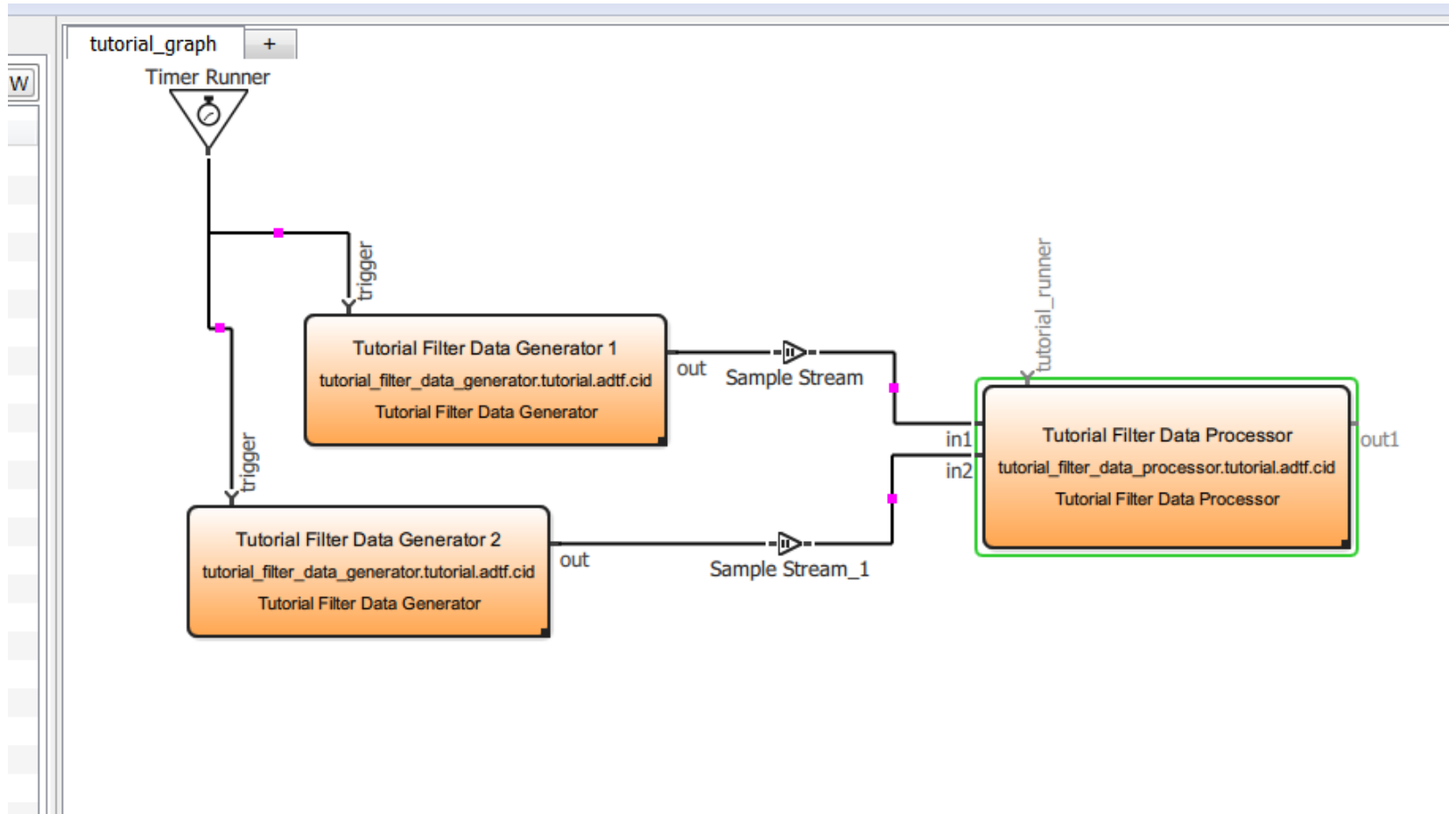


Result



Services/Tools

ADTF



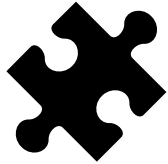
ADTF



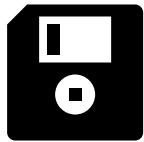
- Multiple input and output streams
- Time synchronicity
- Deterministic processing



- Extensible toolset
- Use case oriented tools



- Open interfaces and SDK
- Open documentation
- Automation via shell/JSON-RPC



- Recording/playback of multiple streams
- Conversion to/from different formats
- Extraction/injection of streams



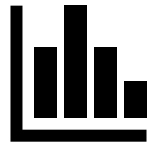
- Open file format
- Open source library for access



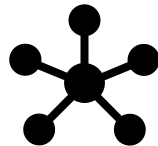
ADTF



- Connectivity to in-vehicle communication
- In-vehicle calibration and measurement



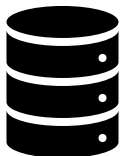
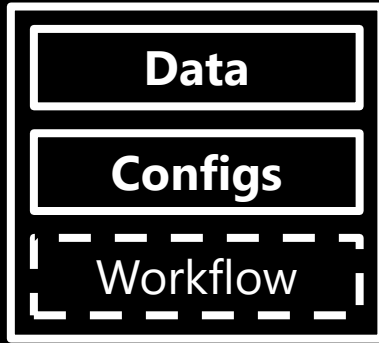
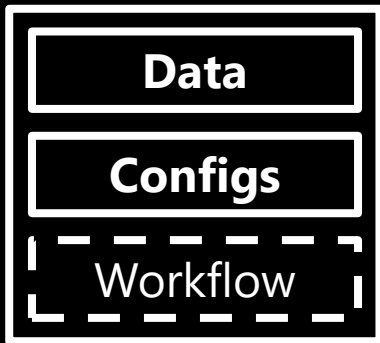
- Visualization of data samples in streams
- Open SDK for custom visualizations
- 2D/3D scene visualization



- Distributed Simulation
- Time Synchronicity
- Open SDK → FEP

FEP

Tools



Tools



Thank You!