

Create production-grade IoT applications





IoT-TICKET®

IOT-TICKET[®] at its core is a tool suite that easily incorporates into your existing ecosystem allowing you to unleash the full benefits of Internet of Things: cost savings, increased efficiency and improved service.

IOT-TICKET[®] can also function as a complete one-stopshop IoT-platform.



CREATE APPS, FAST Arrive at solutions

start now, deliver tomorrow

We provide free multi-platform apps and APIs to provide you the means to start acquiring data and start creating functional applications right now.



THE IOT PRODUCTIVITY STUDIO

Cut down the costly software development – empower anyone to build apps

IOT-TICKET[®] includes web-based drag & drop tools for application building: create Dashboards with over 30 customizable widgets and add the logic *visually* by connecting data blocks.





Build Your Own Vertical Solution

SMART ENVIRONMENT

Air Pollution Water Monitoring Flood Control

Fire Detection

Leakage Detection

SMART ENERGY

Energy Optimization

Energy Trading

Smart Grid

Condition Monitoring

Consumption Forecasting

SMART CITIES

Smart Buildings Traffic Congestion Smart Parking

Urban Noise Control

Waste Management

SMART LOGISTICS

Fleet Tracking Shipping Conditions Location Tracking Geofencing

Storage Optimization

SMART MANUFACTURING

OEE & TEEP Monitoring

Employee Safety

SCM Optimization

Digital Twin

Digital Services

Integration to Existing Systems



DEPLOY TO ANY ENVIRONMENT

Cloud Native (O) Unlimited Scalability

IOT-TICKET[®] is cloud native and can be deployed to any environment; your own data center, Amazon Web Services (AWS), Microsoft Azure, IBM Softlayer or our own cloud service (SaaS or PaaS).



ECOSYSTEM INTEGRATION

140+ Protocols Supported Big Data Enabled

IOT-TICKET[®] can be integrated into most industrial systems with standard communication protocols such as OPC, OPC-UA, Modbus, CAN, IEC 61850 or 1-wire.

The collected data can then be utilized by external applications, for example, Simulink or R for further analysis. The IoT-TICKET[®] server offers REST interface which enables easy integration possibilities with other applications such as SharePoint, SAP, CRM or ERP systems.







BENEFITS INCREASED EFFICIENCY

- ✓ Real-time operational insight
- ✓ Improved employee productivity
- ✓ Better resource management

COST SAVINGS

- ✓ Reduced operating costs
- ✓ Better asset utilization
- ✓ Reduced maintenance costs

BETTER SERVICE

- ✓ Process automation
- ✓ User behaviour prediction
- ✓ More responsive services

CLOUD CLOUD NATIVE

Big Data enabled, unlimited scalability

IoT-TICKET[®]

DASHBOARD

F

📴 REPORTS





DEPLOY ANYWHERE

AWS, Azure, SoftLayer, your own data center or Wapice's cloud service

ECOSYSTEM INTEGRATION

SharePoint, SAP, CRM, ERP et al.

DATA ACQUISITION

WRM247+, IoT-Tracker or third party

SUPPORTED PROTOCOLS

MQTT, OPC, OPC-UA, CAN et al.

DEVELOPER LIBRARIES

IoT-TICKET® APIs



DASHBOARD & INTERFACE DESIGNER

Track your KPIs, Prototype, Control, Innovate

The Dashboard is a web-based and user-friendly application for end-users. The Dashboard is created using *the Interface Designer* which offers a variety of widgets for designing the layout in your brand colors, visualizing the collected data, user interaction and also multiple embedded widgets.

PROGRESS BAR

SANKEY DIAGRAM

SCATTER CHART

STATE INDICATOR

VERTICAL LINEAR GAUGE

STATUS

TIMELINE

TABLE



DATA VISUALIZATION

3D MODEL
ANGULAR GAUGE
CHART
DATA TABLE
EMBED WEB PAGE
FFT
HALF GAUGE
LINEAR GAUGE
MAP
PDF
PARAMETER BROWSER
PARAMETER TREE
POLAR CHART

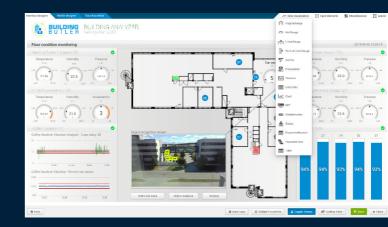
INPUT ELEMENTS

BUTTON TOGGLE BUTTON CHECKBOX COMBOBOX DATA TAG SELECTOR DATEPICKER TIMERANGE TEXTBOX TEXTAREA SLIDER RESOURCE SELECTOR

🖾 LAYOUT

ACCORDION CIRCLE SHAPE DIALOG DYNAMIC LABEL IMAGE TEXT LABEL LINE SHAPE RECTANGLE SHAPE SCROLLABLE CONTAINER TABS





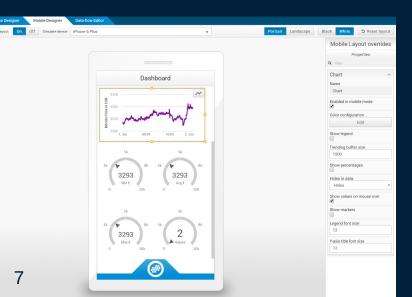
An example of how easy it is to create a simple application

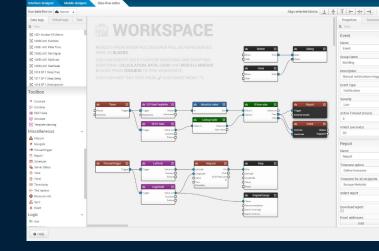


DATA-FLOW EDITOR

Create complex operations and interactions by simply connecting blocks

The Dashboard and the reports are configured using the Data-flow Editor, a graphical block programming editor. You can design the Dashboard's interactivity by connecting *blocks* to implement complex logic operations which can then be used to execute control actions or routed to user interface elements for monitoring, reporting and other purposes. With over 50 calculation, logic, data and other blocks at your disposal, the possibilities are virtually limitless – and for most cases only a few blocks will be necessary.





MOBILE DESIGNER

An easy way to make your Dashboards work flawlessly on any device

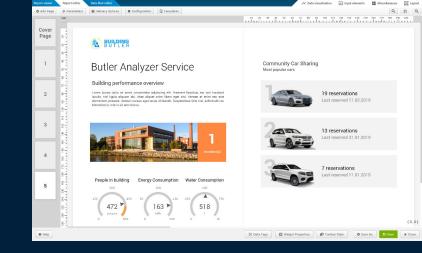
By default the Dashboards' canvas scales to fit any device, and can be used normally when zoomed into. However, with *Mobile Layout* enabled, the Dashboard will no longer be scaled and all the widgets can be placed in the Dashboard in completely customized order, independent of the Interface Designer layout.

The Mobile Designer allows you to hide widgets in Mobile Layout and to use different widget properties from the desktop version. Additionally the editor also allows you to quickly test how the layout will look on different devices.

REPORTS & REPORT EDITOR

Trigger reports on schedule or based on conditions of your own choosing

Reports are created like the Dashboard, using the comprehensive set of widgets, providing you with a blank slate on how to design your reports – you can fully customize your reports as you would your Dashboards. Reports are automatically generated at the moment they are triggered, on schedule or from data-flow of a Dashboard, and then sent as PDF file to configured email addresses.



5	Alarms	& Events History							
*	🕀 En	able Aggregated List	🗖 Disable Grou	ping T Apply Filter			1	Export 2 Refresh	
4	Even								
0	Туре	DateTime ↓	Group	Message	Resource	Severity	Active Time	Acknowledge page	
U.		26.03.2019 14:57:42	Warnings	No data recieved within 3 days	DemoEnterprise/Harbour Lights	NORMAL	0d 0h 5m 3s	Acknowledge	
			Abnormalities (2)		DemoEnterprise/Harbour Lights	HIGH		Acknowledge group	
	٥	26.03.2019 14:57:42	Abnormalities	Abnormal temperature detected	DemoEnterprise/Harbour Lights	HIGH	0d 0h 10m 6s	Acknowledge	
	٥	26.03.2019 14:57:42	Abnormalities	Voltage above set limit detected	DemoEnterprise/Harbour Lights	HIGH	0d 0h 10m 6s	Acknowledge	
	0	19.03.2019 11:23:01	Building	Manual notifications triggered	Building Butler	LOW	7d 3h 39m 44s	Acknowledge	

EVENTS

Activate events based on abnormalities in your data

Events can be triggered from Dashboard's data-flow and the conditions for event activation can be anything the user specifies. The Events view allows user to acknowledge and export the events. The full event history of acknowledged events is retained and can be viewed from the interface.



How companies operating in diverse areas are utilizing IOT-TICKET®

With the help of IoT-TICKET[®], even new technologies can be introduced at almost routine pace, and the development and maintenance of the service level has been smooth.

Tuomo Härkönen
Chief Digital Officer, Caverion

Developing new business models based on real-time and historical machine data has never been easier.

– Marko Takkula Business Development Manager, Epec

SMART INDUSTRY

Enabling the digital industry: from digital twins, process optimization to predictive and preventive maintenance supported through Big-Data and Analytics.

Caverion

Dantoss

HEAVY INDUSTRIES, LTD.

moventas



SMART MACHINES

Intelligent machines supported through fleet management, performance based services and smart services to build new digital business models.



James Fisher Prolec



JUNTTON

XKESLA

₩MOVAX

SMART BUILDINGS

Remote monitoring and optimization of buildings. Improve the quality of living while improving the energy and water consumption as well as providing superior services to tenants.







Schneider Gelectric

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SMART ENERGY

Optimizing the energy flow from production to consumption utilizing demand-response and demand elasticity mechanisms. Integrate to external data sources such as the energy trading system.



POWER PD DERIVA

CONNECTIVITY

DIGITA

SMART TOOLS

beamex

SMART CITY



SMART MARINE



Shape the world of tomorrow, start creating today

Transform into a digital champion: build IoT applications or business models in minutes. No need for additional, expensive, software development. Capitalize on your most important assets, your users, and give them the right tools to turn your ideas into profit by giving them the right tool suite.

Join IoT-TICKET[®] and experience how easy it is to build modern massive scale Internet of Things applications.





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