



IoT-TICKET[®]

Create production-grade IoT applications





IoT-TICKET®



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.

CLOUD ENABLED MESH NETWORKS

1

KSPACE

Butler Analyzer Service

Building performance overview

People In Building: 472

Energy Consumption: 163

Water Consumption: 518

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-stop-shop IoT-platform.



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  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).

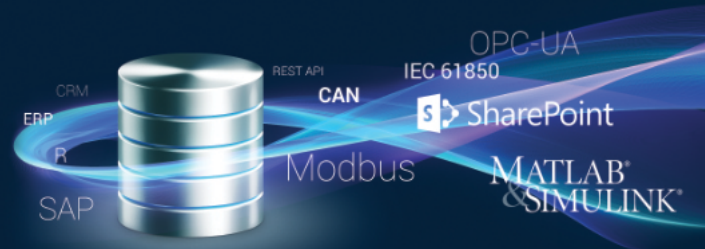


ECOSYSTEM INTEGRATION

 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



IoT-TICKET®



DASHBOARD



REPORTS



ALARMS



ANALYTICS

CLOUD

CLOUD NATIVE

Big Data enabled, unlimited scalability

DEPLOY ANYWHERE

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

ECOSYSTEM INTEGRATION

SharePoint, SAP, CRM, ERP et al.

DATA ACQUISITION

IoT EDGE DEVICE

WRM247+, IoT-Tracker or third party

SUPPORTED PROTOCOLS

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

DEVELOPER LIBRARIES

IoT-TICKET® APIs





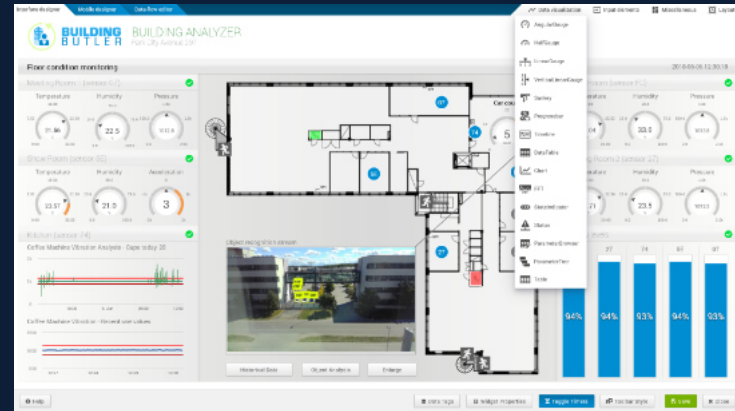
Tool Suite

For creating IoT applications

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 embed external content, such as a web cam.



40+ AVAILABLE WIDGETS

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
- PROGRESS BAR
- SANKEY DIAGRAM
- SCATTER CHART
- STATE INDICATOR
- STATUS
- TABLE
- TIMELINE
- VERTICAL LINEAR GAUGE

INPUT ELEMENTS

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

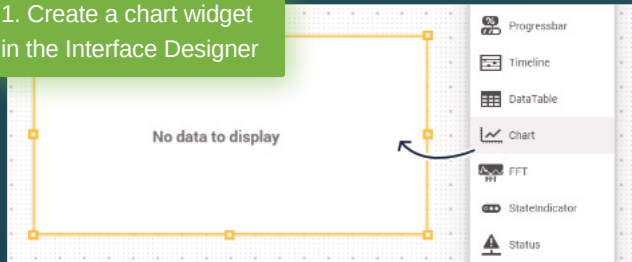
LAYOUT

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

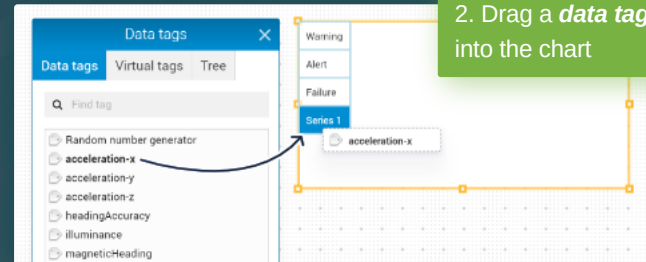


An example of how easy it is to create a simple application

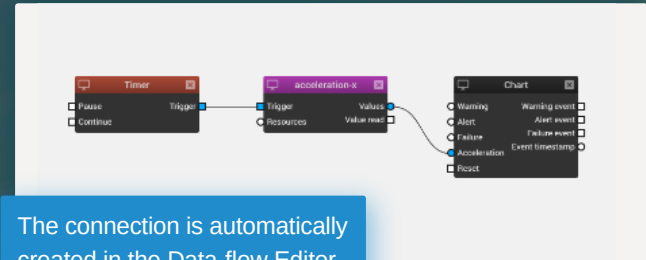
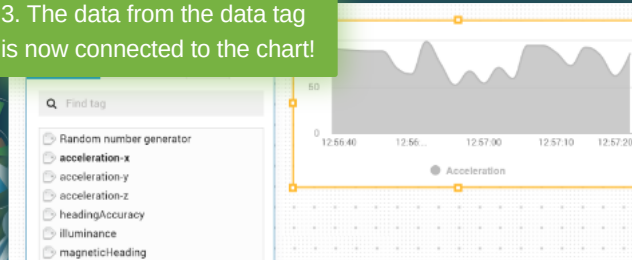
1. Create a chart widget in the Interface Designer



2. Drag a *data tag* into the chart



3. The data from the data tag is now connected to the chart!

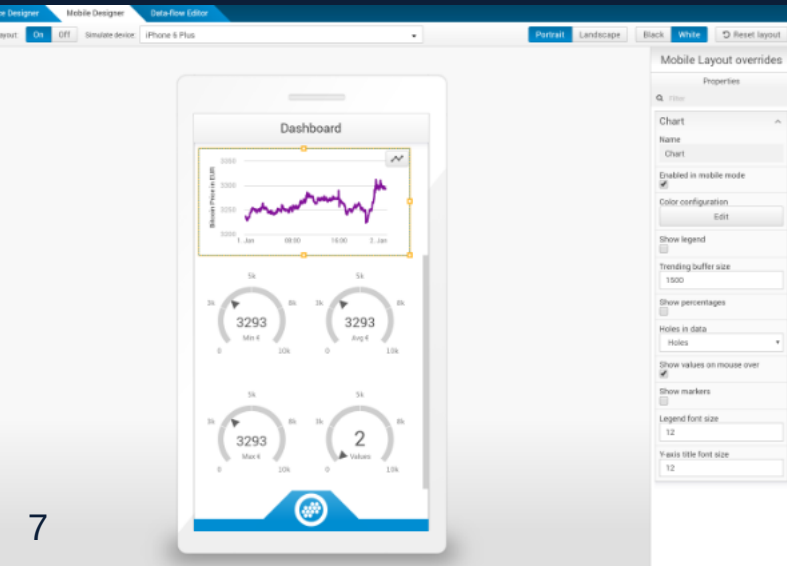
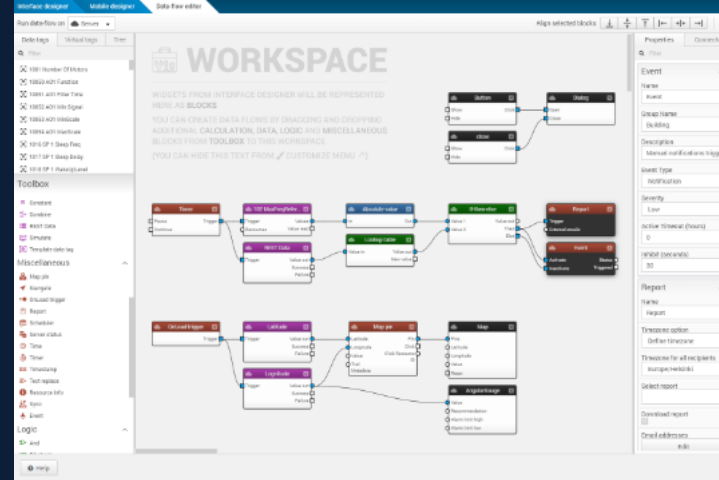


The connection is automatically created in the Data-flow Editor

DATA-FLOW EDITOR

Create complex operations and interactions by simply connecting *blocks*

Dashboards 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

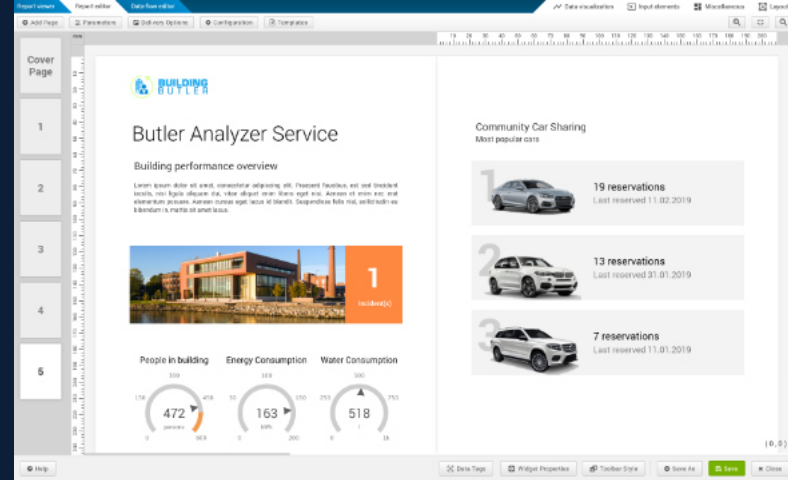
By default Dashboards scales in fixed aspect ratio to fit any device, and can be used normally when zoomed into. However, with the help of **Mobile Designer**, the Dashboard will use all the available space, allowing the widgets to be placed in the Dashboard in completely customized order, independent 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

Stay informed with reports on schedule or based on set conditions

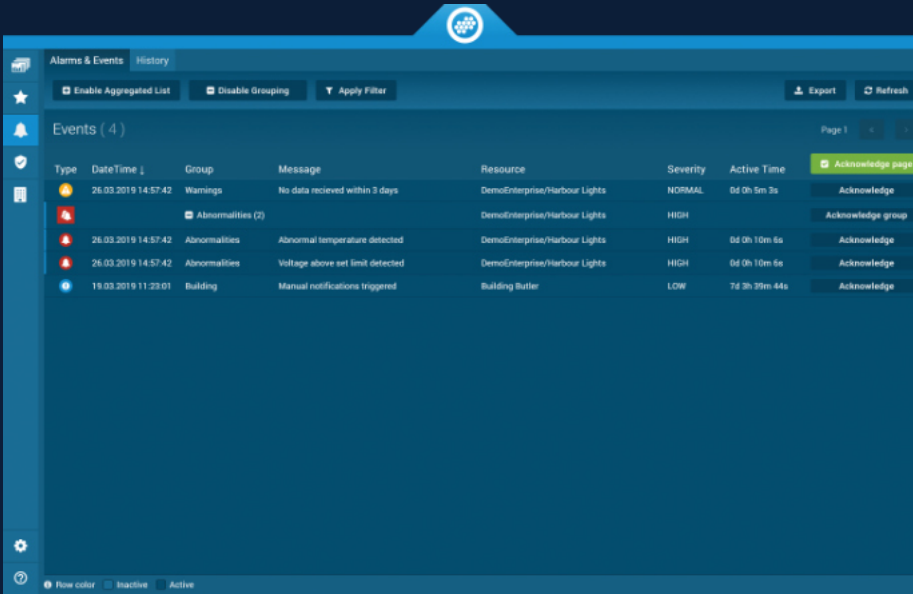
Reports are created like the Dashboard, using the comprehensive set of widgets, providing you with a blank slate on how to design your reports – you can fully customize your reports as you would your Dashboards. Reports are automatically generated at the moment they are triggered, on schedule or from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



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.





Use Cases

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

Danfoss

MITSUBISHI
HEAVY INDUSTRIES, LTD.

SCHAEFFLER

YASKAWA

SMART MACHINES

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

EPEC

James Fisher
Prolec



Junttan

KESLA

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.



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.



SMART CITY



CONNECTIVITY

DIGITA

SMART TOOLS

beamex

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.



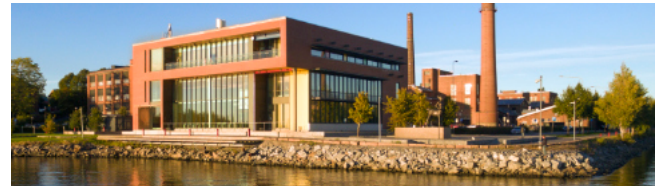
Download this brochure
in .pdf format






Brought to you by  **Wapice**

Empowering the Industrial Internet since 1999,
especially in the energy and mobile machinery industry

Wapice is a leading Technology Partner. Mastering the art of software development, electronics design and industry best practices, we integrate smoothly into organizations, run globally distributed projects, build innovative solutions and enhance our client's performance across all functions by injecting information technology at its best. Our services are supported through tailorable solutions and best practice consulting.



-  Visit iot-ticket.com / wapice.com
-  Email sales@wapice.com
-  Phone +358 10 277 5000