

ICT<sup>+</sup>



conNXT 1.0  
Product Sheet

12/13/2017



## Introduction

conNXT is the platform used by ICT Group for its IoT Projects. conNXT forms the basis for bespoke projects and products, i.e. for your bespoke IoT Cloud. Using conNXT ensures that ICT Group has a running start for your project with proven functionality and quality.

conNXT has the following features:

### Portal

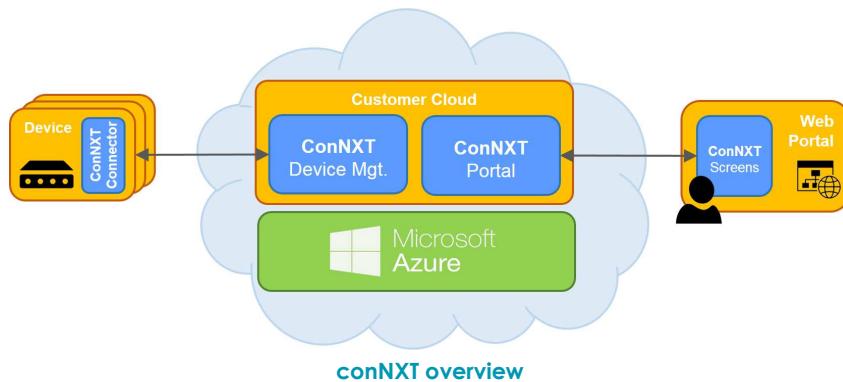
- Multitenancy
- Multilanguage
- Branding
- Search and filter
- Responsive design
- Security
- Hierarchy
- User management
- Rolls and user rights
- Dashboards
- Reporting
- Business Intelligence
- Autocompletion of addresses
- Maps and GPS locations
- E-mail
- SMS

### Device Management

- Device management
- Device types
- Device images
- Device configuration
- Device status
- Device monitoring
- Direct methods
- Device status history
- Device event history

For a description of all features, see the conNXT Feature List.

conNXT consists of three parts; the Portal platform, the IoT platform and the conNXT Connector.



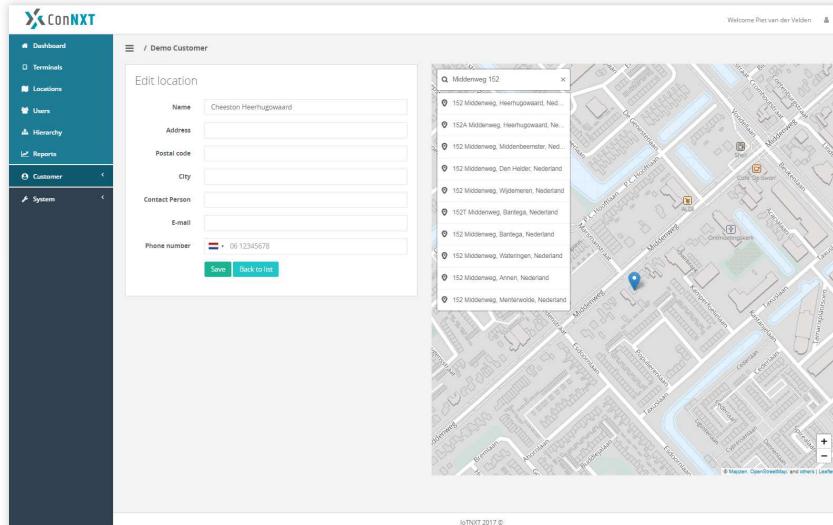
## conNXT Connector

The **conNXT** Connector is a Library that integrates with your device or machine to ensure a high quality secure connection to your **conNXT** cloud. The **conNXT** Connector buffers messages, handles (sub)system status and reconnects to the cloud when the internet connection is lost.

Using the **conNXT** Connector makes adding cloud functionality to your device or machine fast, easy and secure.

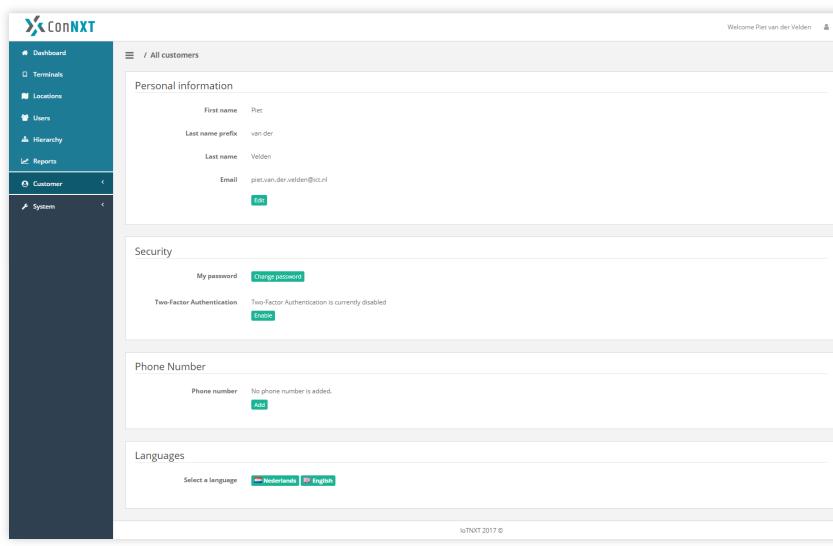
## conNXT Portal

**conNXT** provides a rich Web Portal that allows for the administration, management and monitoring of your devices or machines. The devices as well as the users are arranged in a multitenant and hierarchical system, providing users with a view of only the data that they are allowed to see.



Autocompletion of addresses

To facilitate correct entry of data, addresses can be autocompleted.



conNXT user profile

Users can set and restore their own passwords, and through role based security their view of data and ability to perform actions can be configured.

## conNXT Device Management

conNXT provides device management that allows you to see the status of all your devices or machines in real time and provides direct actions, status and event history to diagnose possible problems.

The dashboard displays a map of the Netherlands with several yellow location markers indicating device positions. To the left, a table lists 'Faulty terminals' with columns for Since, Node, Name, Address, City, and Actions. The table shows 9 entries, each with a status indicator (green, yellow, red) and a 'Terminal status' button. The top of the screen features a navigation bar with icons for Dashboard, Devices, Locations, Users, Hierarchy, Reports, Customer, and System. A sidebar on the left contains links for Dashboard, Devices, Locations, Users, Hierarchy, Reports, Customer, and System. The bottom right corner includes a copyright notice: 'IoT NXT 2017 ©'.

conNXT Dashboard

You can enter your devices into your cloud application through the portal. You can then configure and monitor them via the application. On the dashboard, you can see if devices are offline or have an error situation, but you can also be informed by e-mail of problems.

You can configure your devices from the cloud. You can keep your own configuration syntax but distribute the configuration files via the cloud. By default, there are two types of configurations, technical and functional. However, the configuration mechanism can be used for other types of configuration as well.

This page shows detailed information for a specific device, DEMOROBOT10. It includes a thumbnail image of a robotic arm, a table of 'Device attributes' (e.g., Device ID, Device Type, HW Version), and a list of 'Actions' (e.g., Restart device, View terminal log). Below this are sections for 'Messages' (listing recent messages like 'Status' and 'DeviceStarted') and 'Message info' (listing subsystems like Robot, Safety, Transport). The sidebar and top navigation bar are identical to the dashboard.

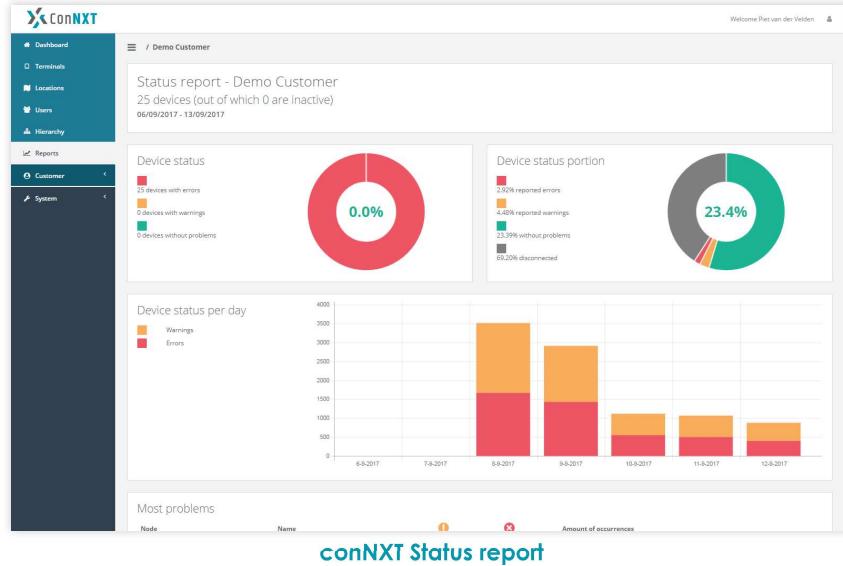
conNXT Device status

Per device you can see the current status as well as the status and message history.

You can send your devices commands from the web portal, such as a restart in case of a problem or any another action, simply and quickly, with one press of the button. A possible device response can be displayed directly in the browser.

## conNXT Reporting

Advanced data analysis is possible in the Web Portal, but can also be done using Microsoft PowerBI for more complex views.



## Security and Privacy

Within **conNXT** data is collected and depending on your application and which data you send to the cloud this may include privacy sensitive data. Security is an important issue, enforced by Dutch and European law. For **conNXT** projects this includes amongst others:

- ICT Group complies to the ISO27001 information security standard.
- A data processor agreement ('Databewerkersovereenkomst') will be in place between ICT Group and the **conNXT** customers.
- Data is stored in Western Europe (Amsterdam).
- Data communications are secure and encrypted.
- Access to portals and apps uses role-based authentication and authorization.

## conNXT Support and SLA

Of course, we do not only provide a warranty on our work, but we also ensure that your cloud continues to function properly. Therefore, for every application, monitoring is built in so that we automatically get updated if there is a problem, but usually even before the problem arises. ICT provides long-term support for every application. You can of course choose which SLA is best suited for your application. If you want support during office hours or 24/7, this is all possible.

## References

conNXT is actively being used in several customer projects, please contact us for references.

## Contact information

For more information on conNXT, or a demonstration, please contact us.

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