Developing Applications for Your Smart Home with QIVICON

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The QIVICON Concept.
An Open Platform Built for Partners and Developers.

QIVICON – the Base for the Smart Home

Partner Ecosystem

Partner
Developer
Partner
Developer
Developer

End-customer relationship

Portal incl. Shop

QIVICON Backend

QIVICON Box

Home automation
Security
Multimedia in-house distribution
Energy
Health
eMobility
QIVICON Home Base.

Hardware Specifications.

- 1-Core ARM v11, 600 MHz
- 512 MB RAM
- 2 GB Flash
- TPM Module
- 4 USB Slots
- Optional 3G Stick
- Optional Battery Pack

Wireless HA connectivity:
- Homematic (built-in)
- ZigBee (USB Stick)
QIVICON Home Base.
Software Specifications.

HGI SWEX underpinning:
- Linux OS
- Java VM (CVM, JavaSE7 planned)
- OSGi 4 Runtime (ProSyst)
- ProSyst mBS
- QIVICON APIs

Remote Access:
- OAuth2 Authentication
- Synchronous: JSON-RPC
- Server Push: Websockets
QIVICON Home Base APIs.
Tailored for Home Automation.

- **Devices**
  - Protocol-agnostic Device Access, Groups, Rooms, etc.
  - Additional Device Drivers (USB, IP, etc.)

- **Rules**
  - Time and Event Triggers, Single Commands and Scenarios
  - Extensible by Adding Custom Triggers and Commands

- **Communication**
  - Export Services for Remote Access, Register for Push Events
  - SMTP / SMS Gateway

- **Misc**
  - Logging
  - Backup / Restore
QIVICON Client APIs.
Mobile App Development Made Easy.

- For server, desktop, smartphone and tablet applications
- Libraries for Java, Android and iOS
- Features:
  - Discovery of QIVICON Home Bases.
  - Authentication through OAuth2.
  - Service calls to QIVICON Home Base (local or via backend)
  - Server push notifications (via websockets or long-polling)
QIVICON – Software Development Kit (SDK).
Simple Development of 3rd Party Applications.

Eclipse-based Development Toolkit

- Project Wizards
- Deployment Tools
- Debugging, Profiling
- Win/Linux/Mac

QIVICON Emulator
QIVICON Home Base
QIVICON Developer Community.

- Development Community around QIVICON: Bugtracking, Wiki, Forums
- Access is currently only available to partners

Planned for 2013:
- Open to independent developers on DeveloperGarden of Deutsche Telekom
- Free registration
- Download SDK/Tooling/Client-APIs
- Documentation/Samples online
Thank you for your attention.

Get in touch with us at

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