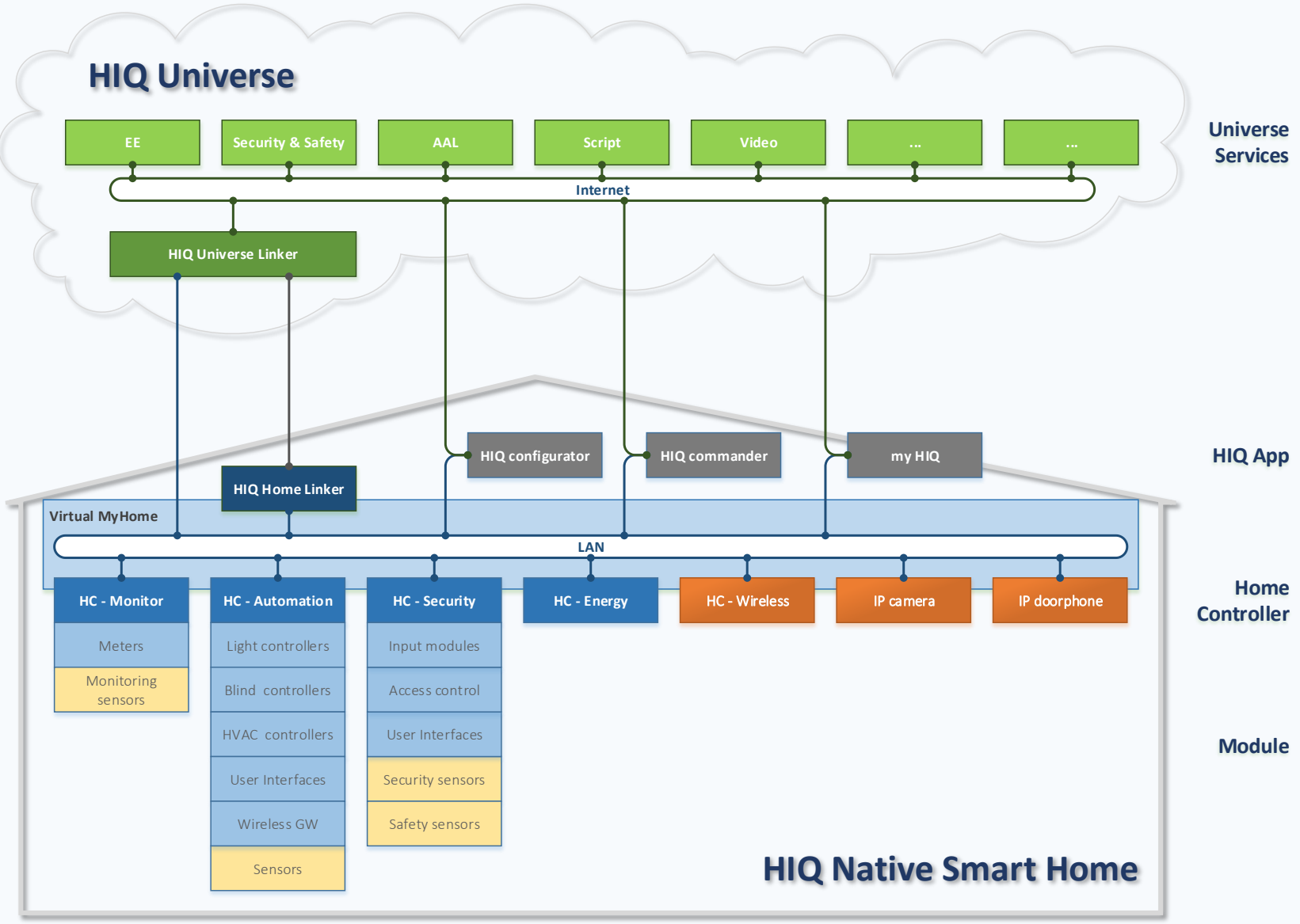
HIQ Native Smart Home

HIQ

What is HIQ	HIQ is a system of devices and software mainly targeted for home automation. Primary function is control of home equipment - lights, blinds, heating and cooling, security and safety; but it can also cover more sophisticated functions, like energy management, surveillance system,... Although basically very simple, expansion capabilities are virtually unlimited.
Benefits for user	Basic functionality implemented directly on module ensures safe operation even in the event of failure of the local network. Advanced features implemented on Home Controller and direct communication for all applications - operation does not depend on an Internet connection. User friendly applications for complete HIQ system and all 3rd party systems.
Benefits for installer	There are no complicated compatibility or dependency rules. Virtually unlimited expansion and customization capabilities. Commissioning tools is free, there are no hidden cost. Out of the box functionality and quick system set up ensures cost effective commissioning.

HIQ deployment

Prepare	CONSTRUCTOR PREPARE BASE • all devices are connected directly to the distribution board • simple topology prevent any mistake and additional works/costs
Install	INSTALLERS CONNECTS ALL DEVICES TO HIQ AND PERFORM INITIAL CONFIGURATION • simple wiring (no mistakes, no additional works, easy testing and issue solving) • easy initial configuration with free intuitive tools
Use	USERS ADAPT HIQ SYSTEM TO THEIR NEEDS • simple configuration of scenes, timetables, … • all software tools with no or minimum configuration



HIQ

- Universe Services
- HIQ Universe Linker
- HIQ applications
- HIQ Home Linker
- Virtual MyHome
- Home Controllers
- 3rd party systems
- HIQ Modules
- 3rd party modules

Home Controllers

All Home Controllers are 100% compatible

Easy integration of any combination of Home Controllers

Full functionality "out of the box"

Easy configuration

Multilevel features:

- **Control features integrated directly on HIQ Modules**
- **Automation features on HIQ Home Controller**
- **Advanced features when connected to HIQ universe and in combination with HIQ commander smart-phone app**

HC - Monitor

Basic Home Monitoring and Energy Management

MONITORING:
- Electrical energy
- Water consumption
- Gas consumption
- Temperature

LOAD MANAGEMENT

SECURITY AND SAFETY

GARAGE DOOR

HC - Automation

Home Automation

LIGHTS
- Discrete lights
- LED stripes
- DALI lights

BATH FANS
MANAGED SOCKETS

SHADINGS
- Blinds
- Awnings
- Curtains

HVAC

LOCAL CONTROL DEVICES

WIRELESS EXPANSIONS

HC - Security

Advanced Security and Safety

SECURITY
- Various security sensors
- Various alarm panels
- Multi-zone

HC - Energy

Advanced Energy Management

ENERGY MONITORING
- Smart per device electrical energy monitoring
- Smart-grid ready
- Local renewable energy power plant monitoring
- Energy storage system monitoring

ENERGY MANAGEMENT
- Energy consumption optimization
- Energy storage system smart management

3rd party systems

Easy and seamless integration of 3rd party systems

HC - Wireless

Easy integration for various 3rd party wireless devices

SUPPORTED WIRELESS STANDARDS
- Z-Wave
- Zig-Bee
- Bluetooth
- Wi-Fi

EASY INTEGRATION INTO EXISTING SYSTEM
- Expand functionality with wireless devices

IP camera

Easy integration of various IP cameras

LIVE VIEW
- Access to live video from HIQ applications

WEB RECORDER
- Easy schedule
- Event driven recording and notification (start recording on alarm)
- Access from anywhere

VIRTUAL VIDEO DOOR-PHONE

IP door-phone

Smart door phone and basic video surveillance

LIVE VIDEO & NOTIFICATION

EVENT LOGGER
- Logging all events with video snapshots on WEB server
- Access to logs from anywhere

MyHome

Virtual HIQ Home

AGGREGATE STATUSES
- Home overview combining statuses from various systems
- Smart usage of most relevant data

HIQ Home Linker

LOCAL DATA LOGGING
- Logging to local database
- Scheduled or on-demand synchronization with HIQ Universe Linker data-base

DATA TUNELING
- Automatically connects to HIQ Universe Linker
- Secure, encrypted communication with HIQ universe

LOCAL WEB GUI
- HIQ GUI
  - HIQ home visualization and control
- System service
  - System overview
  - Database synchronization
  - Router maintenance

User interfaces

Easy monitor and control HIQ from anywhere

Local connection

- Applications communicate with HIQ system through local network
- Fast response
- No additional fees for internet access
- Independent of the connection status

Internet connection

- Access from anywhere through HIQ Universe Linker
- Secure connection

HIQ commander

Personal HIQ smart-phone application

SUPERVISION & CONTROL
- Intuitive list style user interface

AUTOMATIONS
- Smart-phone events/status driven automations

MULTIPLATFORM
- Android
- Apple
- Windows

my HIQ

Graphical user interface to complete HIQ system

SUPERVISION & CONTROL
- Intuitive graphical user interface

DOOR-PHONE
- Ring notification, video, 2 way audio and door lock
- Door phone events list

SURVEILLANCE SYSTEM
- Live video
- Access to recorded clips

MULTIPLATFORM
- Android tablet
- Apple tablet
- Windows PC

HIQ configurator

Easy HIQ system commissioning tool

SYSTEM SET UP
- HW auto-address
- Setting operating parameters
- Set initial scenes and timetables

TROUBLESHOOTING
- Modules status overview
- System overview
- Simple control

HIQ Universe Linker

Cloud HIQ application

BASIC WEB USER INTERFACE
- Home Controller overview
- Time-plots
- Events and alarms list
- Notifications definition

DATA LOGGING
- Data logging to database
- Data aggregation

USER MANAGEMENT
- Master / secondary users
- Auto user registration

HIQ SYSTEM MANAGEMENT
- Auto Home Controller registration
- Simple taking Home Controller ownership
- Home Controllers overview
- Auto backup

REMOTE ACCESS FOR HIQ APPS
- Live variables in near real-time
- Logged data
- Alarms and events notifications and history

API FOR 3rd PARTY ACCESS
- Secure and managed access to HIQ

Services

Cloud services

Old way - HIQ way

	Old way		HIQ way	
Start from	Decide devices and functions	design	Decide devices	design
Design	All details	design	I/O‘s - Modules	design
Basic wiring	Hard-wire in field	design	Hard wire I/O‘s to distribution board	construction
Test	Electrician	construction	Electrician	any time
	Rewire	construction	Change parameters if any	any time
Smart functions	No	construction	Add Home Controller and configure	any time
Smartphone	No	construction	Configure	any time
Cloud	No	construction	Internet	any time

Basic comparison

	Old way Traditional wiring	Toys Battery based wireless	HIQ Advanced home automation
Lifetime	> 20 years	1-5 years	> 20 years
Changes	Hard-wire	Software	Configuration
Upgrade	NO	? Sometimes	Guaranteed and automatic
Battery change	NO	1-3 years	Never
Response time	< 100 ms	Not guaranteed	< 100 ms
Wireless	NO	YES	YES
Wired	YES – Hard-wired	NO	YES – structured/bus
Integration	NO	Limited	YES

Functionality comparison

	Old way Traditional wiring	Toys Battery based wireless	HIQ Advanced home automation
Energy saving	NO	? Sometimes	YES
Custom functions	NO	Limited	YES
Automation	NO	Limited	YES
Security	NO	Limited	YES
Smartphone / Tablet / PC	NO	Through server	YES
Cloud	NO	Through server	YES – HIQ universe
iNOC	NO	NO	YES
HIQ universe	NO	NO	YES