groov

OS-neutral, mobile interfaces for automation, monitoring, control applications

Build OS-neutral, mobile interfaces for automation, monitoring & control applications

Opto 22 groov is a new system for building simple, effective web-based interfaces to monitor and control systems and equipment using computers and mobile devices. With only a Web browser, Opto 22 groov allows fast building and deployment of Web-based automation, monitoring, and control applications that work on most computers and mobile devices regardless of operating system.

"groov" is Opto 22's new system for building simple, effective Web-based interfaces to monitor and control systems and equipment using computers and mobile devices. Using only a Web browser, groov allows fast design and deployment web-based automation, monitoring, and control applications that work on most computers and mobile devices regardless of operating system (OS). It allows mobile, visible, accessible, and simple screen development.

Opto 22 groov View for iOS is an optional iOS app for groov View. Screen made once automatically resize for any size screen such as Apple iPad, although objects can be moved around during development if needed. Courtesy: Opto 22Opto 22 calls groov a "human device interface" (HDI) instead of a human machine interface (HMI) because it takes the regular HMI in a different direction: towards the tablets, smartphones, and other mobile devices that have become part of home and professional lives.

Opto 22 developed groov with HMI best practices in mind, including those defined by the "High Performance HMI Handbook," providing the tools to build high-performance, intelligible information and control screens. The new system is not intended to directly replace an HMI, but to augment HMI systems by making important information easily available on almost any mobile device or large, flat-screen HDTV, mounted high for monitoring key performance metrics (KPIs) or other parameters.

Opto 22 groov screens made once automatically resize for any size screen, such as Apple iPhone, although objects can be moved around during development if needed.

"This is unlike anything being offered," Benson Hougland, Opto 22 vice president of marketing and product development, told CFE Media. All software is included, accessible via any browser, without plug-ins, without downloads, no per-user licenses, no tag limits, with nothing else to buy or install, Hougland explained.

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"This make software as easy as possible to use; groove Build has pre-drawn touch-screen-enabled gadgets," Hougland said. Screens are distributed via an HTTPS URL with secure sockets layer (SSL) encryption.

Prior attempts to mimic operator interface screens in a browser have been poor, Hougland explained, with limited scalability. This system uses HTML5 to scale graphics, buttons, labels, images, live video, trends – everything – to the screen size. The only software needed is a browser. On the development page for the software, another tab allows tweaking or reordering to optimize gadget location with screen shape, but scaling works fine, even without changes, as a demonstration showed.

"Application development can be done quickly and is fully scalable, from large-screen high-definition television to an iPod Touch in kiosk mode, operating as a light switch," Hougland said. It eliminates programming, reprogramming, and server commissioning and deploys changes automatically.

Opto 22 groov Box is an industrially hardened appliance that interfaces with Opto 22 control systems and runs the Opto 22 groov web application.

The product consists of an Opto 22 groov:

- Box – Industrially hardened appliance that interfaces with Opto 22 control systems and runs the groov web application.
- Build – Web application's mode for creating a groov project (the interface).
- View – Web application's mode for running a groov project in any modern web browser.
- View for iOS – iOS app for groov View (optional).
- View for Android –Android app for groov View (optional).

More info

Short intro, 1 min.: http://www.youtube.com/embed/2QETDXsemAE
Webinar, 27 min.: http://www.youtube.com/embed/N_5Zd9dR8jk

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Contactdetails:

The Netherlands
Mulder-Hardenberg B.V.
Westerhoutpark 1a
2012 JL Haarlem
Tel.: +31 23 531 91 84
infonl@m-h.biz

Belgium, France, Luxemburg
Mulder-Hardenberg N.V.
Hoge Weg 129
B-2940 Stabroek
Belgium
Tel.: +32 3 660 13 20
infobe@m-h.biz

Germany
Mulder-Hardenberg GmbH
Nordring 13
D-65719 Hofheim/Ts
Tel.: +49 6192 - 97 91 85
infode@m-h.biz