



How Infor V-smart Air bridges the gap between user interface and application

Combining beauty and function

Is a user interface just a user interface? For many application users, the interface is the application. The interface not only provides access to the application's functionality and technology, but it should also be attractive and easy to use. Infor® V-smart Air is a flexible, browser-based interface available for desktops, laptops, tablets, and smartphones—and it has been built to be functional and beautiful. In addition, Infor V-smart Air has been intensively tested by people with impaired vision, and also supports right-to-left scripts such as Arabic and Hebrew.

Building a better user experience

Infor V-smart is much more than a traditional integrated library system (ILS)—and its user interface is no different. Infor V-smart is the core application in Infor’s portfolio of library products, which include Iguana (personalization, customization, and websites), V-eyeQ (selection and acquisitions support), V-insight (data and trend analysis), V@school (school ILS), V-link (link resolver)—and Infor V-smart Air, the V-smart solution’s user interface.

With Infor V-smart Air you can experience:

1. A colorful and flexible user-interface

Infor V-smart Air is bright and available in every color imaginable. Its flexibility enables libraries to set their preferred colors, and individual users can also select their own color settings. For example, a visually impaired person can use high-contrast colors, while other users can use standard settings. You can change colors and other settings using URL parameters or set them more permanently in personal preferences. The library can also brand Infor V-smart using a customized library logo or library picture, which can be included in each implementation of Infor V-smart Air.

2. A responsive viewing experience

Infor V-smart’s Air interface is based on “responsive design.” Responsive web design (RWD) is an approach to web design that is aimed at crafting sites that provide an optimal viewing experience—easy reading and navigation with a minimum of resizing, panning, and scrolling—across a wide range of devices (from desktop computer monitors to mobile phones).

Infor V-smart Air’s responsive design enables it to run on all devices that have a minimum width of 480 pixels, which includes all modern smartphones and tablets. The basic technical requirement of V-smart Air is a modern browser. The minimum supported browser versions are Microsoft® Internet Explorer 11, Firefox® (recent automatically updated versions), Google Chrome™ (recent automatically updated versions), and Apple Safari® 6 (on the Mac® and the iPad®).

Air is the latest step in Infor’s plan to implement a responsive design for all of our library products.

Infor V-smart Air uses HTML5 and CSS3 wherever appropriate, making the solution standards-compliant and flexible. Infor V-smart Air uses two CSS files: an extensive CSS file and a small “local” SCSS file. Technically, Air uses a Sass CSS pre-processor, which compiles the Infor SCSS file (and its Sass syntax capabilities) into a “regular” CSS file. The local file contains settings such as color (primary and secondary), as well as font and corners (round or square). Some local settings can also be controlled through URL parameters. All this creates more flexibility and customization, while also helping to protect the customer’s local settings when upgrading.

3. Access on tablets and smartphones

Infor V-smart Air’s responsive design allows it to run on all modern devices, from desktops and laptops to tablets and smartphones. A smartphone’s screen is narrow, so the application recognizes this and automatically adjusts its display; data elements are shown beneath each other instead of next to each other and fewer columns are displayed (e.g., 1 instead of 4), while other components may be completely hidden. This approach ensures that the application remains usable on small screens.

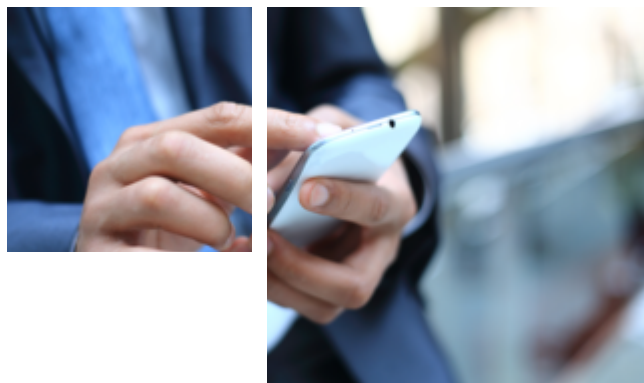
4. Web accessibility for blind and visually impaired people

Infor V-smart Air is especially suitable for use by people with full or partial visual impairment. This is achieved in a number of ways; adherence to accessibility standards and best practices, the availability of high-contrast profiles, support for screen readers, and magnifying aids.

Infor V-smart Air’s design takes into account international standards (primarily WCAG 2.0, level AA based) and best practices, meaning the application is barrier-free. The [Web Accessibility Initiative \(W3C\)](#) defines web accessibility as:

“Web accessibility means that people with disabilities can use the Web. More specifically, Web accessibility means that people with disabilities can perceive, understand, navigate, and interact with the Web, and that they can contribute to the Web. Web accessibility also benefits others, including older people with changing abilities due to aging.”

Infor V-smart Air has been tested by institutions for people with visual impairment. These tests focused on usability: How easy, efficient and intuitive is the application in use?



Specific considerations in the development of this visual impairment friendly application include the elimination of frames (often replaced with <iFrame> tags), elimination of tables where appropriate, usage of unsorted lists where advised, usage of <label> and <title> tags where needed, the correct appliance of tags such as <h1> and <h2>, the usage of heading tags and WAI area regions, and Infor V-smart Air’s responsive design.

In addition to adhering to standards and best practices, Infor V-smart Air also has profiles available for visually impaired users. This is relevant for both libraries for blind and visually impaired users, and for other libraries, which often employ people with partial or total sight loss. Air can run in “high contrast” mode—in white or yellow fonts on a black or blue background.

Operating on the principle that “accessibility is a process, not a state,” Infor constantly works with libraries for people with sight loss to ensure that our interfaces are accessible and usable. This is a huge challenge for both Infor and the library. Different browser behaviors, different browser versions, and different reading aids (including JAWS, ZoomText, and NVDA) pose constant challenges. These challenges can lead to dozens of permutations, with each permutation tending to behave differently. Infor V-smart Air supports as many of these permutations as possible.

5. Right-to-left scripts

V-smart Air is not only suitable for left-to-right scripts such as English, French, and Dutch, but also for right-to-left (RTL) scripts such as Arabic and Hebrew. When working in RTL mode, the application automatically switches reading direction; options typically placed at the left are placed at the right. The user does not need to take any action and will get the reading direction that he or she prefers.

Infor worked with a partner in the Middle East to ensure that V-smart Air meets the specific requirements of that market. RTL is just one element in a wider range of localization features for the Middle East and the Arabic World; other elements include flexibility with regard to numbers, currencies, taxes, dates, translations (interface and documentation), bibliographic formats, iconography, and regulatory requirements. These features make Infor V-smart Air an application well suited for use in the Middle East and the Arabic world.

Infor V-smart Air’s responsive design allows it to run on everything from desktops and laptops, to tablets and smartphones, and other

modern devices.

Creating a unique experience for every user

Infor V-smart Air offers a user interface unlike anything other. It is beautiful and responsive and can be deployed on any browser or device—from desktops to laptops, tablets, and smartphones. And, Infor V-smart Air has been built for every user, offering right-to-left reading modes and accessibility for blind and visually impaired people.

[Learn more about Infor V-smart Air.](#)



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