

This document provides a light overview of all the changes and new capabilities that we have introduced in this version of the OutSystems Platform.

*Considering that some of the changes have been rolled out throughout the lifecycle of this major version, we've clearly identified the new capabilities with the build number they have been added in. Check, for example, the items marked with **8.0.1** to see what has been released of the 8.0.1 update.*

OutSystems Platform 8

The OutSystems® Platform 8 is all about empowering IT to deliver great applications users love to use, independently of the device they're working on.

When designing and modeling your applications, you now have an improved WYSIWYG screen designer, derived from extensive research on usability and visual design best practices. **Building highly usable and appealing interfaces, that work across devices, is now simpler than ever.** You no longer require deep technical knowledge or CSS hacks that hinder maintainability to create pixel-perfect HTML5 web applications. The OutSystems Platform takes care of the complexity for you.

LifeTime, the component that gives you simplified staging and visibility over your entire factory, has been enhanced to provide a powerful way to **monitor the performance your users are experiencing** with your applications, from the moment they click until the moment they can work on the result. Instead of looking at system specific metrics, that don't provide insight into the real user experience, you will become aware of real issues and be able to **react fast, even before users let you know they have a problem.**

Version 8 brings you a lot more. Be sure to check the **new APIs and extension mechanisms**, which allow you to go beyond what is provided out of the box, and extend the platform and applications to your specific business needs. **Full support for Oracle Fusion Weblogic** is now available, and we have made additional investments to **assure you have highly secure applications.**

OutSystems Platform 8	1
Develop rich and appealing interfaces	3
Consistent and appealing page layouts with no effort	4
Optimal spacing between elements	6
Immediate preview, right in the designer, for extreme prototyping	6
Develop Responsive Applications	8
A New, Responsive-Ready, Web Page Editor (8.0.1)	8
Responsive by default (8.0.1)	9
Icons, icons, icons (8.0.1)	10
Device testing made easy (8.0.1)	10
Richer mobile specific applications	11
A new 100% Smartphone Theme (8.0.1)	12
Enrich your applications with great data visualizations	12

Helping you build great applications	13
What else (in development)?	14
Your personal environment, for free (8.0.1)	16
Major performance improvements in 1-Click publishing and staging (8.0.1)	17
Immediate Test Query (8.0.1)	17
Real user performance monitoring	18
Get Real Performance Insights.....	18
Maintain applications performing over time	19
React before your users complain.....	19
Extend the OutSystems Platform	20
Performance Monitoring API.....	20
Security governance API (8.0.1).....	20
Lifecycle API.....	21
LifeTime Plugin SDK	21
OutSystems Forge improvements	21
(Even more) Secure Applications	22
Extended Java support	22
Unprecedented productivity on top of Oracle Fusion Middleware.....	22
Jboss 7 support (8.0.1)	22

Develop rich and appealing interfaces

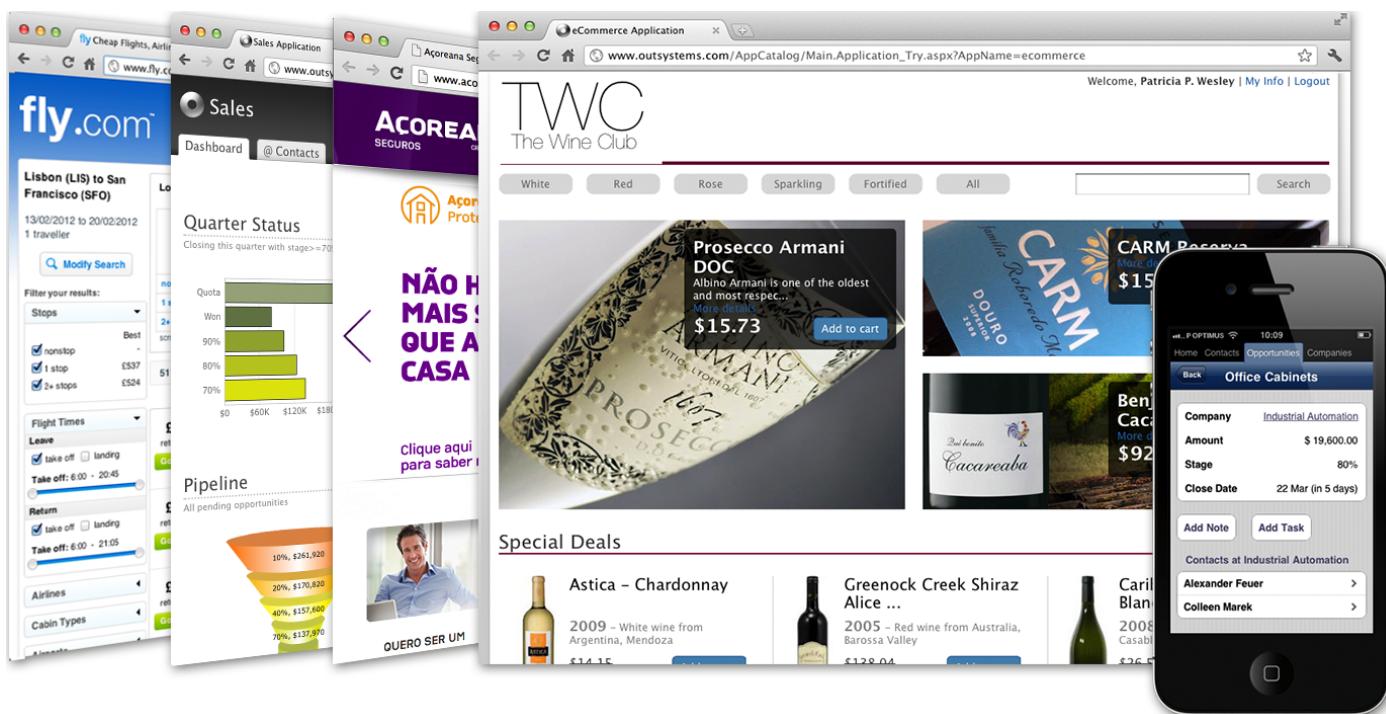
Today, more than ever before, your business users have a deep appreciation for a great user experience (UX). They are used to exquisite web and mobile experiences in their personal life and have very little appetite to struggle with poor day-to-day business applications.

It is not hard to find stories about enterprise applications rollouts boycotted by employees who resort to alternative approaches such as manual workflows and spreadsheets to get their work done. In most cases the application met the functional requirements but missed out on providing the expected user experience - it simply was not a great application.

When done right, the advantage of delivering great applications is not only increased adoption but reduced costs as well. You slash training, incur fewer helpdesk tickets, your users are more productive in their tasks and make less operational errors. You improve the ROI of your applications and, more importantly, that of your business.

But creating a great application is not as easy as it sounds. Facebook, YouTube, and other companies that bet their businesses on products for global audiences can typically spend their way into high usability and great UX, but most corporate IT teams don't have the skill set or budget to achieve similar results.

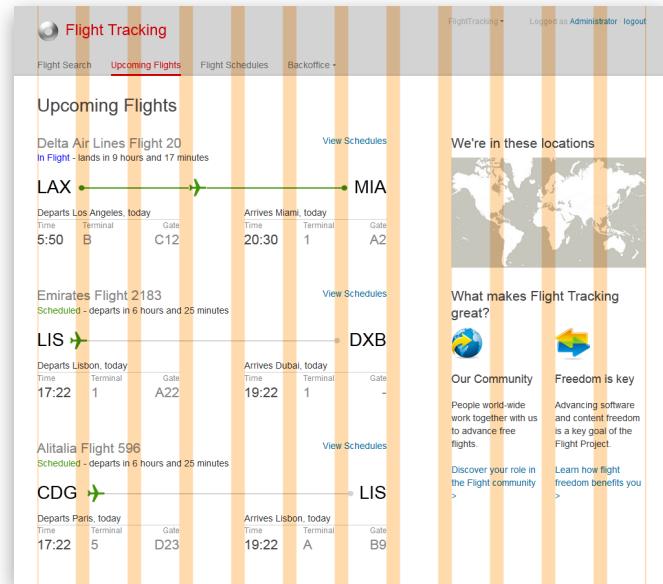
That's where the OutSystems Platform comes in. Version 8 brings you enhanced tools to ensure you deliver extremely usable, pixel perfect applications. At the same time, your teams will be highly productive not only when creating them, but also changing and maintaining them. You will be able to provide the same high quality UX throughout your application's life.



Consistent and appealing page layouts with no effort

[Grid systems](#), a concept that comes from the initial ages of typography, are starting to gain popularity in the web design field, by promising to bring to the digital world the same benefits grids have afforded print layouts for decades:

- Grids add consistency, order, and harmony to the presentation of information, even if pages are busy with many elements. This makes the human eye find, read and understand information quicker and helps users predict where to find information when navigating from page to page.
- Grids accelerate development time by providing a structure that already addresses design considerations such as "How wide should the measure be?" or "Where should content X go?"; and simplify the placing of objects (no more CSS hacks – *floats* and *clearfixes*). You will very easily accommodate a request by a stakeholder who wants to move content from the right side to the left.
- When many individuals need to collaborate on a series of related projects, grids allow them to do so without compromising established visual patterns from one project to the next.

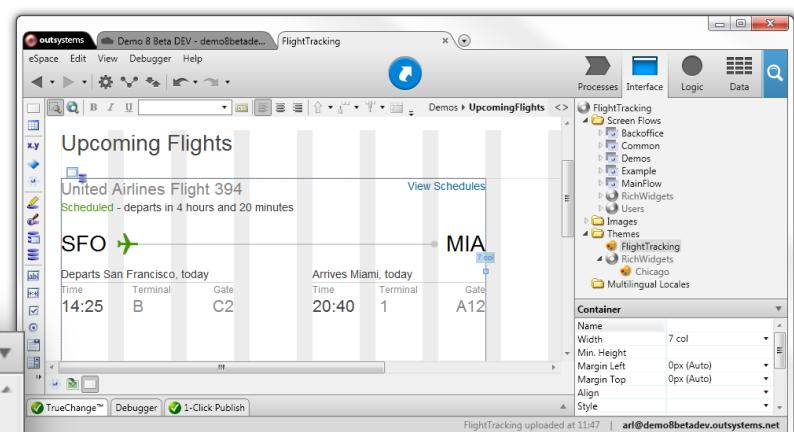


However, although all these benefits are widely recognized, grid systems have yet to gain traction in the Enterprise. Why?

- The learning curve is too steep. You'll need to invest a lot of time learning how to use any CSS Grid Framework: how to incorporate the CSS in your project; how is the framework organized; what is the hierarchy of the dozens of new CSS classes you'll have to start using... And this time should be multiplied by the number of developers in your company...
- Applications built with CSS Grid Frameworks are terrible to maintain. Any change has to be done by someone who fully understands how that specific framework works, not to mention it's really easy to break something. And when you do, good luck debugging the problem...

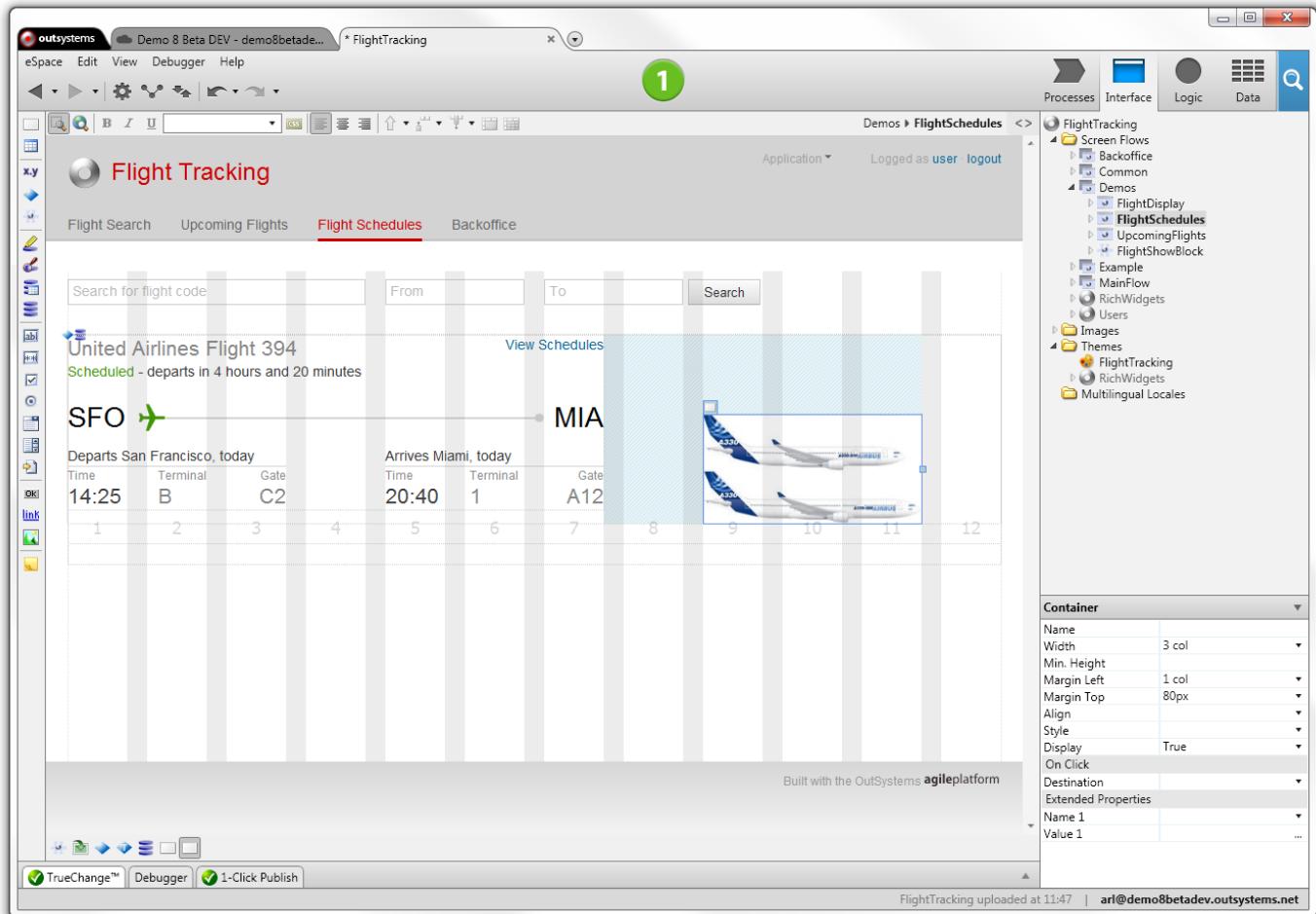
With **Service Studio's new built-in support for Grid Layouts** it is now extremely simple to take advantage of all the benefits a Grid has to offer, with none of the technical complexity.

FlightTracking		Theme
Grid	Yes	
Columns	12	
Column Width	60	
Gutter Width	20	
Total Width	980	

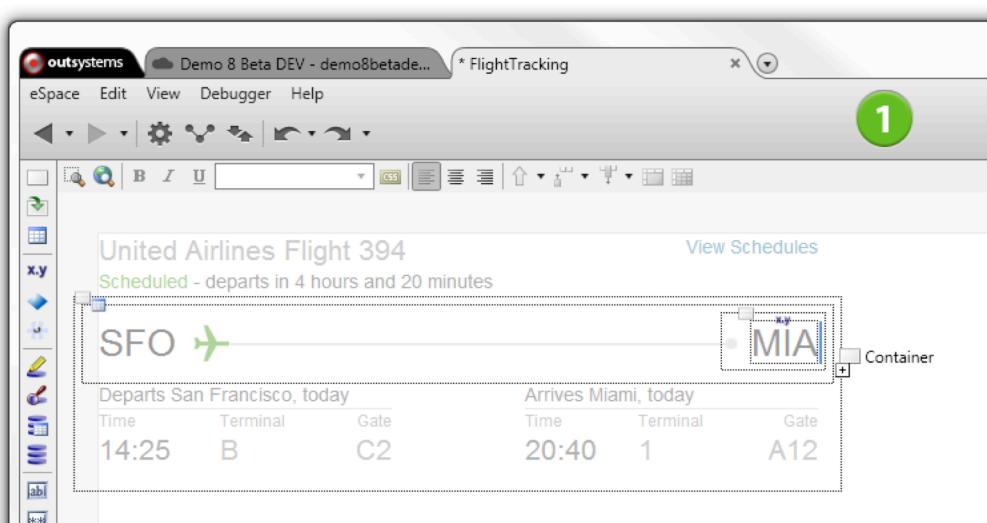


By simply using drag & drop and sizing handles to resize UI elements, you'll effortlessly create structured applications, with pixel-perfect alignments. As simple as creating a PowerPoint slide!

Your users will love the usability and legibility of your applications and your developers will love the boost in productivity.



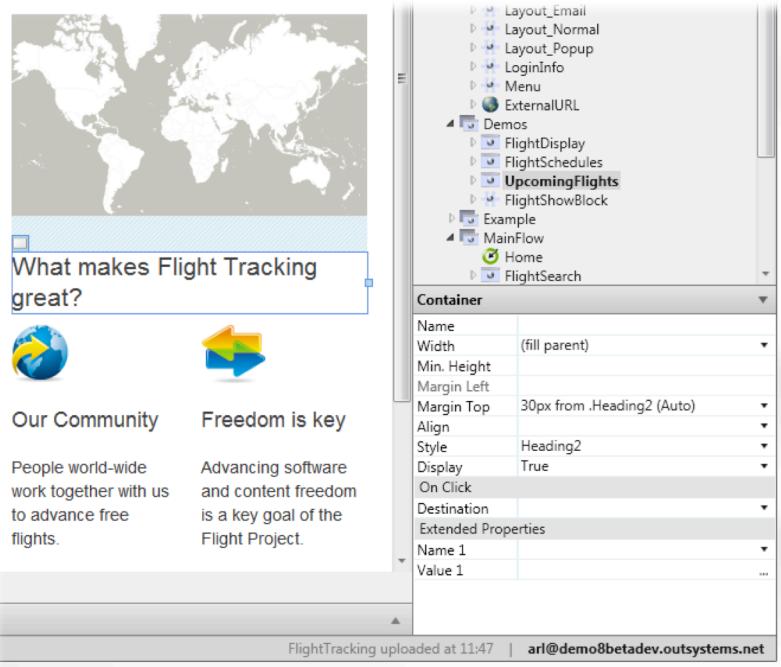
Another thing that will benefit from the built in support for grids is the maintainability of your user interfaces. Any developer can easily understand and change the layout, without having to worry about breaking the CSS or having to comprehend how the grid works. **Your interfaces are built for change.**



Optimal spacing between elements

Whitespace is one of the most important building blocks of good design, not just because it gives a sophisticated look to your applications, but because it increases comprehension and keeps users focused, which is especially important for enterprise applications, where there is a lot of content that needs to be presented.

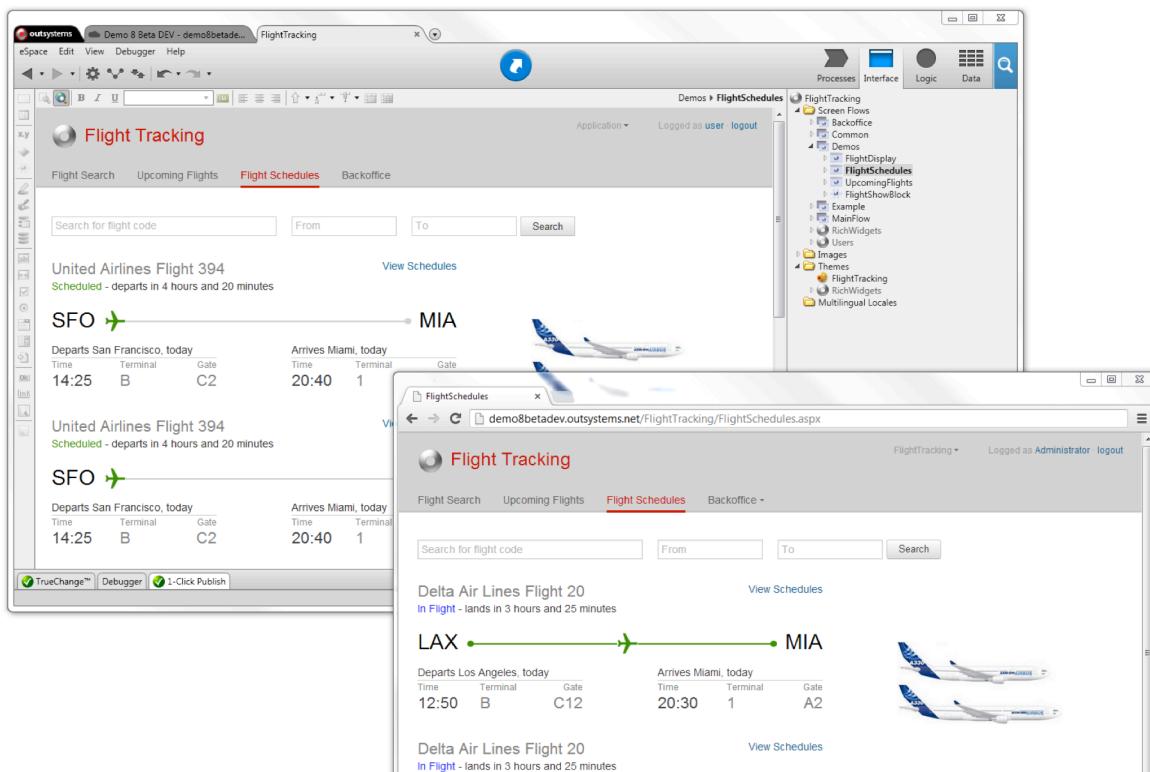
Because getting spacing right is a very arduous task, Service Studio's visual editor helps you in this task. Through extensive research on visual design best practices, all elements come with recommended default margins, fostering the proper groupings of information and the vertical rhythm of the pages.



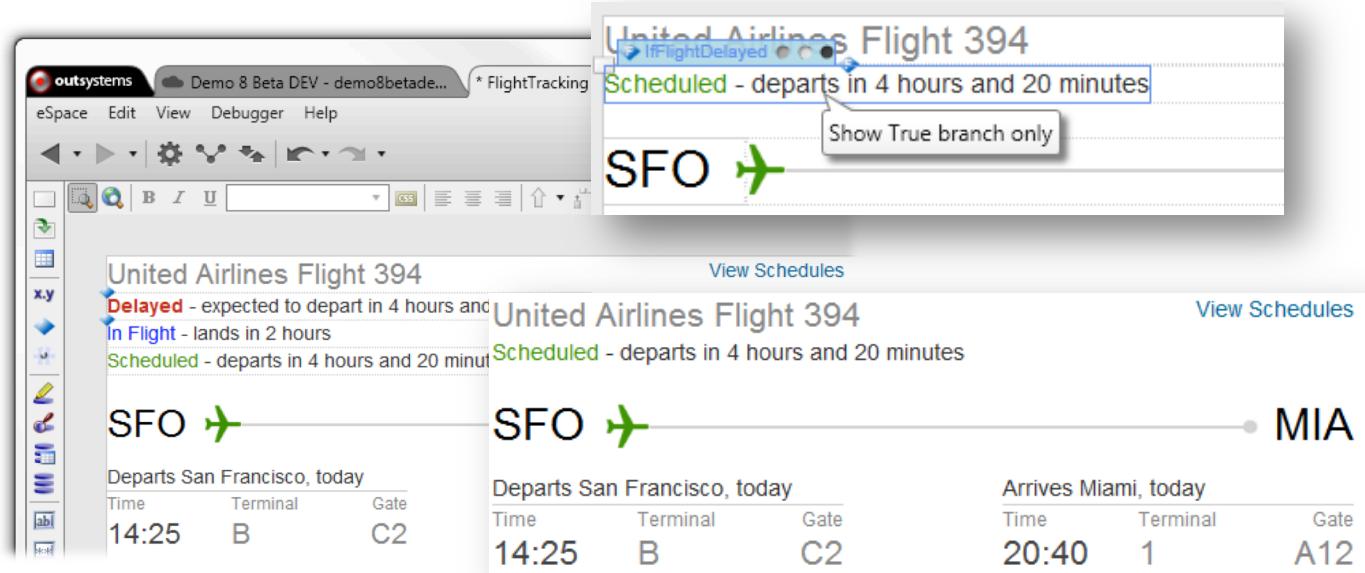
Whenever you need to change the defaults, not only does Service Studio highlight the margin in the editor; it also tells you from which CSS class is the margin coming from. Developers no longer need to use all the different kinds of hacks (from margins, paddings and transparent images, to spaces or carriage returns) to properly space elements. They just change a simple set of properties in the editor to have consistent spacing. This also results in increased knowledge transfer, making it easy for someone to adjust the interfaces someone else built months ago.

Immediate preview, right in the designer, for extreme prototyping

Service Studio's improved visual editor now offers you a **perfect rendering of how the web page will look in the browser**. You can make changes and have continuous feedback about how your edits affect the web application without having to compile and run the application in your browser. This is the true WYSIWYG editor you've been dreaming of.



Designing a static web application is simple... but when interfaces vary depending on dozens of business rules, you usually need a lot of design-compile-run iterations to understand if the end result is exactly what you're aiming for. It's the same as painting blindfolded. With the OutSystems Platform 8, you can immediately switch the preview status of your conditional interfaces right in the IDE, reducing the number of iterations required to make sure your interface is perfectly designed.



```
'FlightTracking' Theme Style Sheet
FlightShowBlock FlightTracking Chicago
(No Style Selected)
/* Color formatting inside ScheduleBox */
.ScheduleBox .Heading1 {
    color: black;
    margin-top: 0px;
}
.ScheduleBox .Heading2 {
    border-bottom-style: solid;
    border-bottom-width: 1px;
    border-color: #ccc;
    border-left: none;
    border-left-color: #ccc;
    border-left-style: solid;
    border-left-width: 1px;
    border-radius: 5px 0px 0px 5px;
    border-right: none;
    border-right-color: #ccc;
    border-right-style: solid;
    border-right-width: 1px;
    color: #0070C0;
    font-size: 1em;
    font-weight: bold;
    padding: 5px 0px;
}
```

When you need to fine-tune your application's look in CSS you can just start typing, and the new auto-complete will help newcomers with suggestions and enable CSS experts to write faster. **As soon as you type, the results are immediately visible in your interface**, making the tweaking process possible without ever needing to leave the IDE.

All these improvements have a big impact on your productivity. When you create an interface you will be able to see what you're doing. When you make a change or a decision, you will see the effect of that immediately. No more editing the code blindly, compile and run it to see the result is not the expected. **UI development in real time!**

Develop Responsive Applications

Web traffic on mobile phones and tablets has been dramatically increasing over the last few years, and end-users expect web applications to work across all their devices. [Responsive Web Design](#) (RWD) is a core approach to respond to this new challenge, giving ITs the ability to deliver to multiple devices with a single web application.

But traditionally RWD is complex and hard to implement. It demands strong knowledge of technologies like HTML5, JavaScript and CSS, and it has a very strong impact on a project's budget - up to 200% the cost of a traditional website design, according to Forrester.

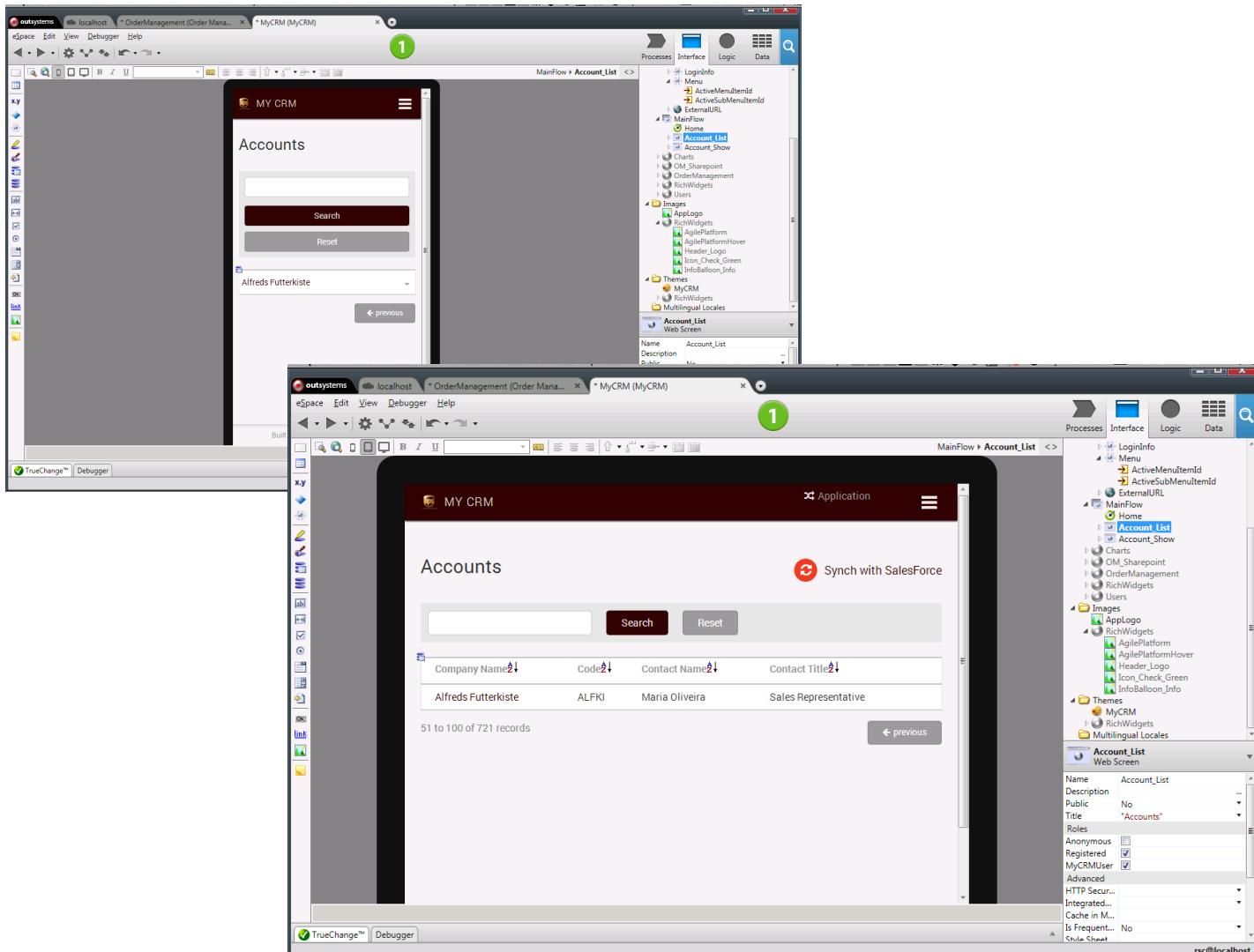
This new version of the OutSystems Platform offers developers the ability to build Responsive Web Applications as fast as they're used to build standard applications using the OutSystems Platform. The new London theme and our improved scaffolding accelerators make every application Responsive by default. This means that all applications are beautifully designed for tablets and the desktop, and gracefully adapt to smartphones - at no added cost.

A New, Responsive-Ready, Web Page Editor 8.0.1

The OutSystems Platform 8.0.1 includes a brand new web editor with full support for responsive design, providing you with high-fidelity preview of the application you're building without ever having to leave the OutSystems IDE.

Written from scratch for performance and to take advantage of the WebKit browser engine, the new web editor gives a pixel perfect preview of HTML5 and CSS3 as you edit, making the whole design experience much faster.

Grid layouts are an awesome way to ensure design consistency and to accelerate screen design by making it easier to layout your content. In this version, support for responsive grids is included as you design your applications, making it super-easy to build your screen layout, for the desktop, tablet, or smartphone.



Responsive by default

8.0.1

Flat, responsive and touch ready, a new responsive theme is now included as the default theme for a new applications.

The London theme bundles everything you need to discover the best way to build an application that works across devices.

Actual YTD \$34,050K Target 2013 \$50,000K Open 2013 \$139K

Orders to Approve
My pending orders to approve

Product	Quantity	Unit Price
Alice Mutton	10	\$ 39.00
Aniseed Syrup	10	\$ 10.00
Boston Crab Meat	10	\$ 18.40
Camembert Pierrot	10	\$ 34.00
Caranarvon Tigers	10	\$ 62.50
Chai	10	\$ 18.00
Chang	10	\$ 19.00

View all

By Country
Orders amount by country

out a little more. These image cards work great for product lists or to highlight certain products or news in a screen.

How to build your image cards?
Cards with images are easily build as cards with titles, but instead of placing the card up to the top container, just place your images inside of it. Remember to put the outer container to set the card width and keep the ones inside to width: 100% parent.

LONDON THEME

London theme

Sleek, responsive and touch ready. Create beautiful applications with the new London theme and let your users unleash the full potential of your applications anywhere.

Going Mobile

Understand the multiple options to build a mobile application and when the London theme is your best option. Learn the differences between a web, hybrid or native application and which of these will fit your needs.

[More about going mobile...](#)

Responsive layout

The London theme was built using Responsive Web Design, adapting the applications to the multiple screen sizes and devices your users have. The OutSystems grid is reduced for tablets in portrait and in smartphones the columns even adapt themselves to the whole screen.

[Adapting to multiple devices...](#)

Touch ready

This theme was designed having tablet users in mind, who instead of having a precise mouse cursor, have to use their own fat fingers. Besides the responsive design, there were additional concerns for touch-friendly controls such as larger fonts and buttons, higher table rows, redesigned pagination, etc...

[Building application for tablet...](#)

Modern elements

The general look and feel of the London theme is flat, following the last trends on the web. It also uses a different font which will also give a modern look to your applications.

[Elements inside the London theme...](#)

Typography

Probably you never paid too much attention to what font does your web applications use, but choosing the right one can really make a difference. It can change the application look, making it feel more modern. There are also some rules that you should follow when building your screens, when to use headings, bold or any other typography elements.

[When to use each typography element...](#)

Color

London is a monochromatic theme, so the good news is that it is much easier to customize to your brand colors. Checkout the London color choices and how you can easily transform the theme to fit your brand.

[Customizing the theme to your brand...](#)

Built with the [OutSystems Platform](#) | [Download documentation](#)

Much more than a set of styles and layouts that you can use throughout your application, this theme is a complete style guide that helps you with many of the composition patterns you need in your applications. It includes templates that you can reuse such as:

- Dashboards
- Wizards
- Advanced search
- Editable lists
- Breadcrumbs
- Long forms
- Infinite scrolls
- Tabs
- Cards

LONDON THEME

London Getting Started IntelliWarp More Samples Customize

Customize

Building your custom theme

To help you create your own version of the London theme, tailored to your company brand and colors, a smart theme customizer is available for you to use. Simple enter your company website URL, which must be accessible from the internet, and the customizer will try to discover the company logo and colors, presenting you with the alternative London versions.

1. Enter your company website URL
 Generate

2. Choose the logo

Choose the main colors

Header background color

Choose the font

3. Your theme is ready
You theme assets are ready to be downloaded. Use the included AppLogo image as you application logo and copy the content of the CustomLondon.css file into your application theme.
[Download Assets](#)

The London theme was built with customization in mind, and it's very easy to transform it to your company's look.

By going to the theme landing page (<http://labs.outsystems.net/LondonTheme>) and writing the web address of your company in the customization section, the theme is personalized just for you - including colors and company logo.

And since the theme we build is all standard CSS3, you can further customize it to your specific needs.

This is not only a great accelerator, but also an awesome way to learn the best way to extend a theme, and even understand, by inspection, how to create your own theme and share it with the community.

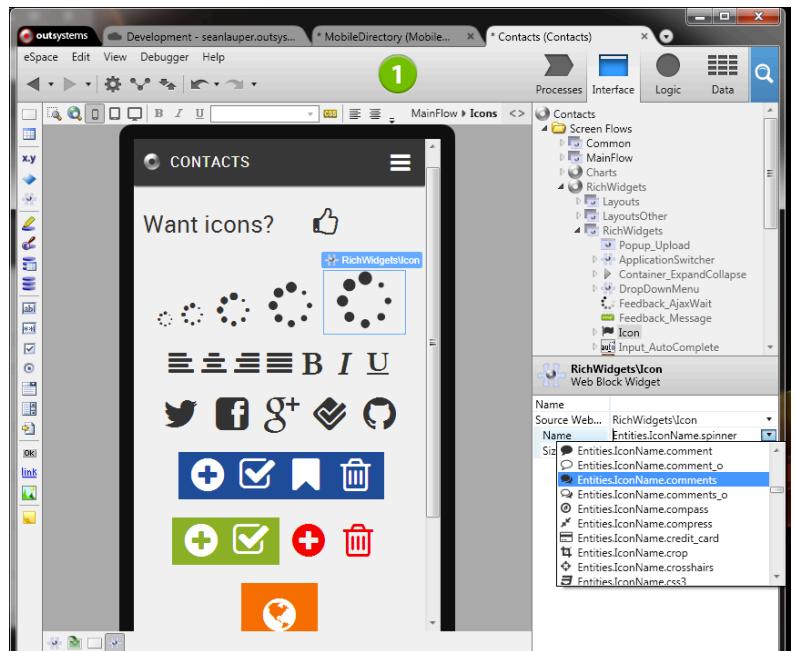
Icons, icons, icons 8.0.1

Every application needs some color. And icons are a great way to represent a particular action on an application, with a visual queue that users will recognize as they get used to the application.

To get you started without having to hire a design team, we've bundled a set of beautifully designed, highly usable icons (based on AwesomeFont) and made it really easy to include them in any application.

These icons adapt well to any size, and can be highly customized to almost any need.

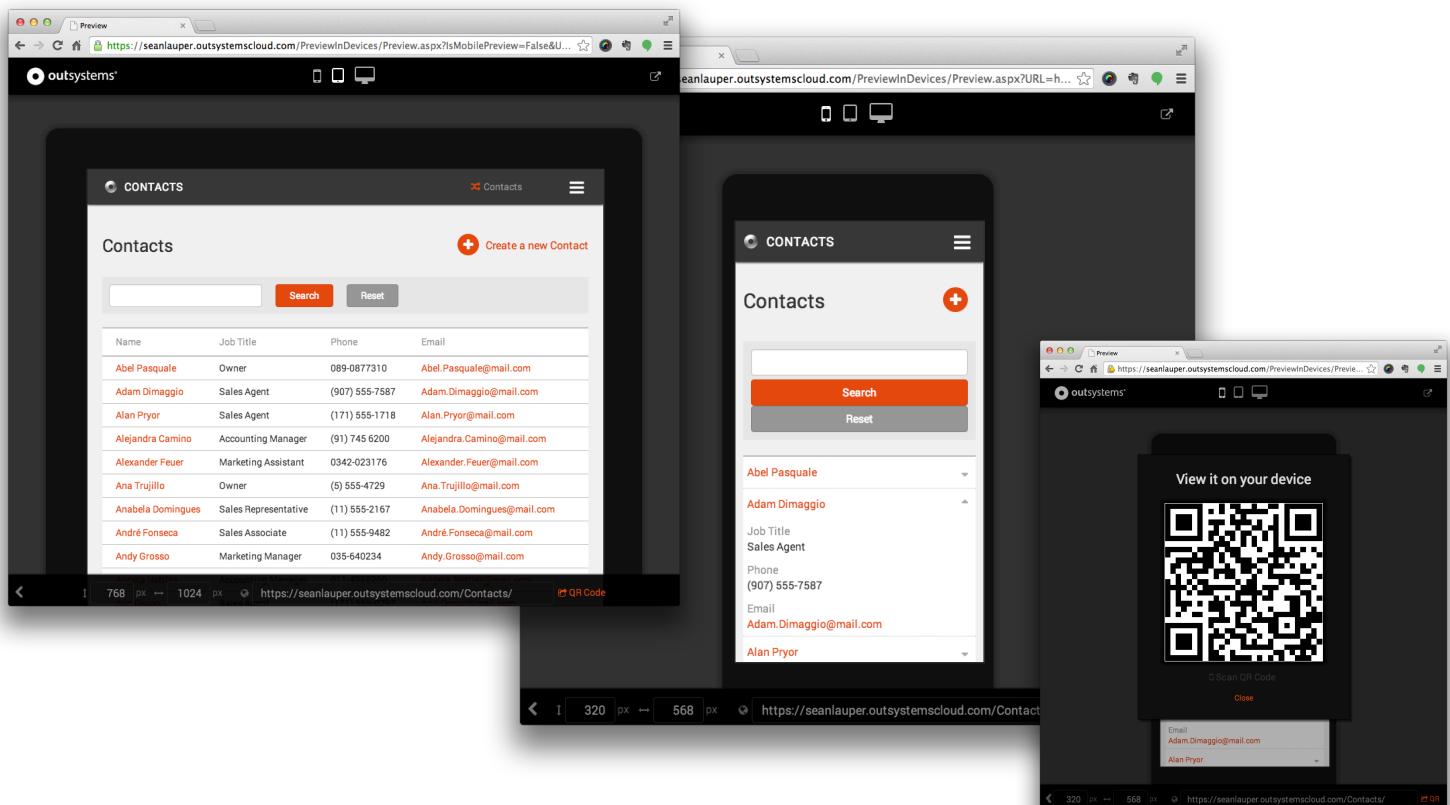
And they're amazingly simple to use, just by drag and drop, browse, and customize.



Device testing made easy 8.0.1

It would be great if you only had to consider a single device. But the fact of the matter is that, with the proliferation of new devices appearing, each one with its own form factor, it is harder to ensure your user base will own the device you expect. Your applications need to account for this.

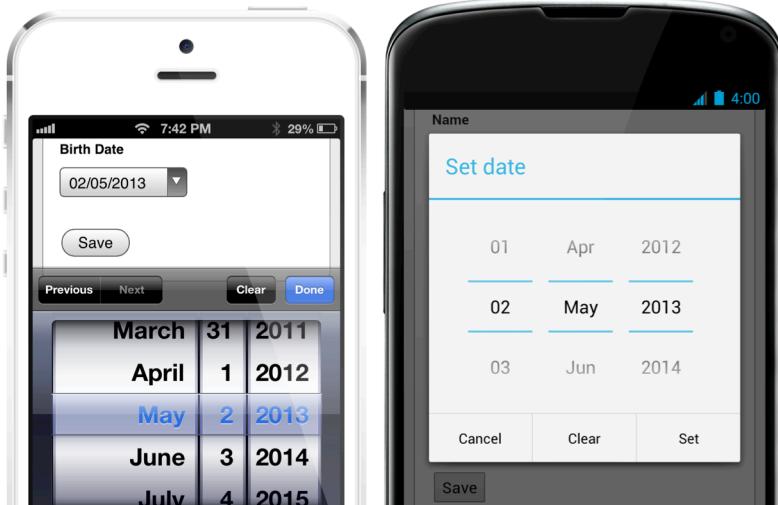
Responsive design is a great approach to cover these needs with minimum impact in your productivity, but it also implies that you need to test your applications across this wide range of form factors. To help you accomplish this task, the OutSystems Platform 8 introduced an extremely simple way to test your applications with different form factors. As you publish your application, and open it in the browser, you're immediately redirected to a screen that lets you choose which form factor to test in (with the usual standards bundled in), and fine tune the form factor in which you'll test the application, or immediately open it in your mobile device by scanning a QR code.



Richer mobile specific applications

A new set of patterns are now available to use in your mobile applications. From off-canvas menus, notification badges, to clickable areas, you'll be able to use the latest patterns found in the best mobile apps and build, in just a couple of hours, a mobile experience your business users will love.

In order to give users a more usable interaction when they're using your applications in their small devices, version 8 also improved the most common interaction patterns. Edit and Show Records have by default the labels on top, accelerating the filling of forms and leaving more space to the data you want to display to users.



On top of that, depending on the type of device the user is using to access your application, the inputs will be rendered with HTML5 controls that use the native input controls, resulting in a more friendly experience.

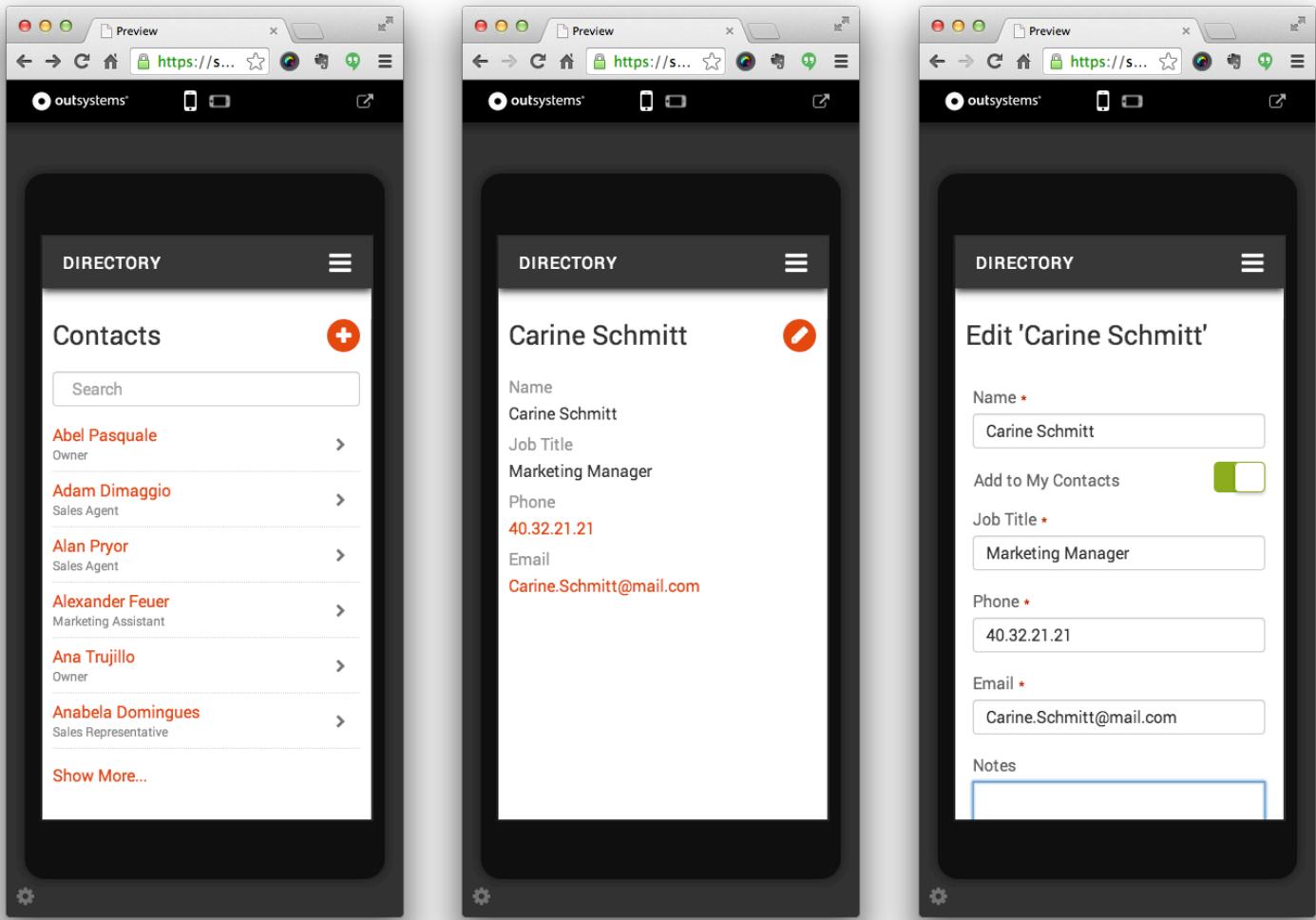
For example, to help users enter a date, the native date picker of the iPhone, iPad or Android is used, whereas if they access it from a desktop browser, a beautiful jQuery based calendar is shown to help input the appropriate date.

A new 100% Smartphone Theme

8.0.1

Smartphones present unique challenges in terms of application design, and sometimes responsive is not enough. For those scenarios, you now have access to the new LondonMobile - a 100% smartphone theme.

This theme takes advantage of advanced HTML5 and javascript optimizations to make the whole smartphone experience more fluid, without you having to know them.



It also includes new smartphone specific widgets (e.g. scroll to show more, right aligned menu for a more usable experience, toggles for checkboxes, ...) making your applications a pleasure to use on small form factors.

Enrich your applications with great data visualizations

The value of business applications is allowing business users to make better decisions based on the information that the applications are able to provide them. A great way to make this complex information accessible in a simple way is using charts.

With version 8, a fully revamped set of charting widgets are available out of the box. **These widgets, based on pure HTML5 and JavaScript, offer intuitive, interactive charts that work seamlessly across desktop browsers or mobile devices.** Additionally, it is extremely easy to feed them data, by using the bundled visual API. You just need to focus on which insights will better help your business users and let the Platform take care of the technical implementation complexities.



Helping you build great applications

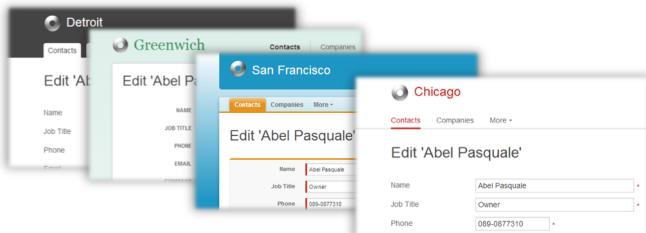
With all the capabilities in the OutSystems Platform for building great apps, we wanted to give you something else... the knowledge required to apply the best practices in the domain of User Experience, tied to the simplicity that you are used to in the OutSystems Platform.

As such, together with version 8 we're also launching a new set of online materials totally focused on building a great application.

- **UX for IT** - This online resource provides the best practices, examples and checklists, all wrapped and available for your delivery team, so that they can have the fundamentals of UX methods at the click of a button, and apply them thoroughly in their delivery process. Use it and start delivering projects with superb experiences, without even noticing an impact on your teams' productivity. Get it at <http://www.outsystems.com/ux-for-it>
- **Online usability lessons for developers** - these courses build upon our research on the UX field, tied to simple practices that you can use in a fast paced, ever changing, enterprise environment. Without having to be an expert in usability, you'll understand the core concepts that make all the difference in the applications you deliver to your users. We packed years of UX knowledge, into a few hours of training that an engineer or rookie developer can use. Check it out at <http://www.outsystems.com/academy/>



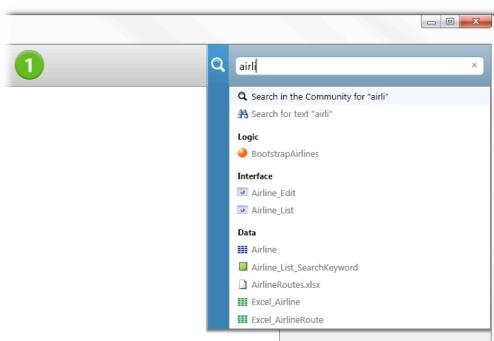
What else (in development)?



A new set of beautiful themes

A new set of themes is now bundled with the OutSystems Platform. These themes allow you to jump start new projects getting a simple but extremely appealing look by default.

They allow your teams to understand the best practices to extend and customize the looks of your application, without impacting their maintainability in case you ever want to rebrand your entire application portfolio.



Omni Search

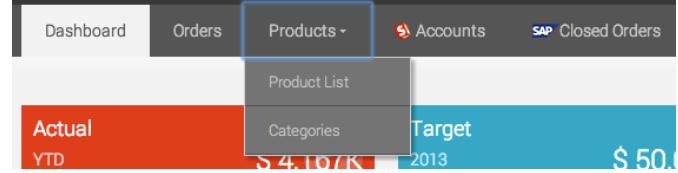
Search all the actions, widgets, properties, entities and structures from within your eSpace, at the distance of a click (or CTRL+G).

Drag them to your flows for an extremely productive development experience, and extend your search to the Community or the reference documentation in case you can't find what you're looking for.

Smart suggestions

8.0.1

Whenever you need to set a value in Service Studio, you always have a list of suggested values to make your job easier. In version 8.0.1 we've made these suggestions even smarter, to better predict what you'll need at each step of your development.



Navigation submenu

Having a navigation menu with only one level is great but, many times in complex applications, you need more structure on the navigation of the application, in order to reduce users' time and errors finding what they're looking for.

Navigation submenus are now provided out of the box, and can be used via drag & drop, without the need to resort to Javascript or CSS. Additionally these submenus are optimized to work correctly in touch devices like smartphones and tablets, by working on click.



Packaged jQuery

jQuery is now packaged with the OutSystems Platform, allowing you to easily reuse jQuery plugins in your application. Just use the \$. notation and build rich interactions easier than ever before.

Assign node usability

8.0.1

Applications in the OutSystems Platform handle huge sets of data going back and forward, in and out. Mapping transformations of this data is not always easy. To further help, we've improved the usability of the Assign node, so it is much easier to understand what each assign consists of.

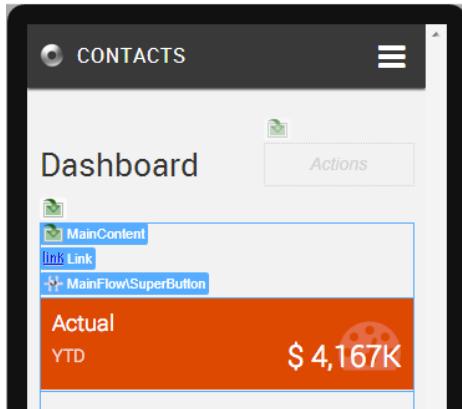
Label	Assign ContactRecord
Assignments	ContactRecord.Contact.Name = Excel.Current.Excel_Contacts.Name
	ContactRecord.Contact.JobTitle = Excel.Current.Excel_Contacts.JobTitle
	ContactRecord.Contact.Phone = Excel.Current.Excel_Contacts.Phone
	ContactRecord.Contact.Email = Excel.Current.Excel_Contacts.Email
Variable	= Value

Links around Containers or Webblocks

8.0.1

Did you ever wanted to make an entire area or section clickable? Do you need large and rich touch areas in your applications? Do you want to package rich, UI complex and reusable blocks that your team can reuse as buttons or links across their applications?

If the answer to any of these is yes, you'll be happy to know that in this version you can include any of these elements inside a link widget, giving you much more freedom when composing your web applications.



The use cases are so broad and powerfull that we wanted to make sure this new "minor improvement" didn't get unnoticed.

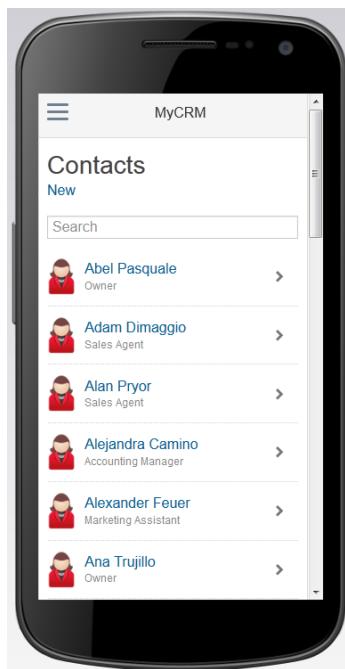
Richer mobile list screens

8.0.1

When you're scaffolding a new mobile list screen, the default list is now created with a List Records (instead of the previous Table Records).

This allows for richer list elements with much less work. Combined with the ability to have web blocks inside links, this allows you to design in detail the content of each one of your mobile list row, fine tune it, make it reusable, and just drag it to be your list element.

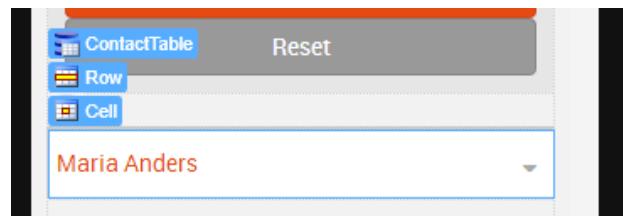
Not only maintainability is improved, but you'll be much more focused on improving the user experience of your mobile app.



Improved widget navigation

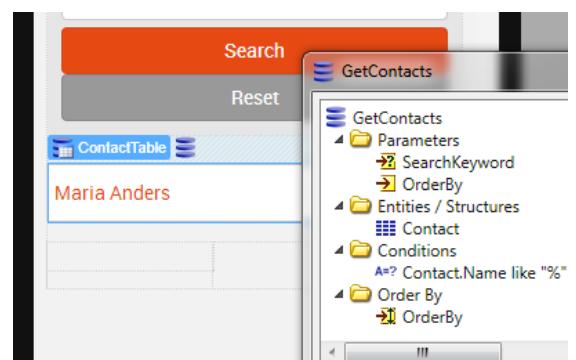
8.0.1

To build a truly great application, you need to build a great UI. We realize that developers spend a lot of time tweaking Web and Mobile screens, and in this version we havily improved how you can select, move, and navigate your widgets inside a screen.



Understanding and navigating the hierarchy of widgets, while still maintaining the real preview, is now much easily done just by clicking on the widget name right in the editor.

And when you need to tweak the datasource for your list or table, it is easily accessible right from the user interface.



Themes layout inheritance

8.0.1

In order to increase maintainability of your application and provide you better options when redesigning an application, both Grids and Layout Web Blocks settings on a Theme are inherited. The outcome of this is that the actual layouts (Masterpages) you use on a screen, is defined by the Theme itself, instead of on a particular screen. By changing the applied Theme all the pages using that theme will see it's layout updated.

Grid	
Use Grid	Yes (from London)
Web Blocks	
Layout	Layout_London (from London)
Info Balloon	Layout_Popup (from London)
Pop-up Editor	Layout_Popup (from London)
Email	Layout_Email (from London)
Header	Common\Header
Menu	Common\Menu
Footer	Common\Footer

Your personal environment, for free

8.0.1

One of the most valuable assets we all have access to is the OutSystems community of developers. We continuously nurture this amazing group of people, who share their experiences, expertise, technical advice, components, and more.

To make sure that the OutSystems developers have all that is needed to leverage the full power of the OutSystems Platform, and because we know they consider us as their own swiss army knife, we have now introduced the missing piece that allows them to use it as the platform of choice for their own personal life.

We are now providing not only our developers but the entire community of developers, curious technologists, and avid entrepreneurs across the world access to their own personal environment in the cloud where they can learn, experiment, prototype, and develop their personal web and mobile applications, only limited by their creativity.

The screenshot shows the OutSystems website's 'Get Started' landing page. At the top, there's a navigation bar with links for 'How It Works', 'Customers', 'Get Started', and 'About'. Below the navigation is a large heading 'Get Started with the OutSystems Platform® for Free Today'. To the left, there's a section titled 'Sign up to the OutSystems Platform and get:' with three icons: a gear, a plus sign, and a checkmark. Below these icons are three bullet points: 'Everything you need to develop, integrate and manage your apps', 'A cloud environment to deploy and run your applications', and 'Start free and grow as needed'. A note at the bottom says 'No credit card needed, no commitment.' To the right, there's a form for entering 'First name', 'Last name', and 'Your email address', followed by a 'Get Started' button. A small note below the button states 'By clicking Get Started you are accepting the [terms of use](#)'. At the bottom of the page, there are three testimonial snippets from different users:

- "It's rare that I'm really impressed by software [...] but the OutSystems Platform is one heck of a product" - *Joshua Price, MakeTechEasier*
- "It does what it claims to do, and does it well. In this industry, that is extremely unique" - *Justin James, TechRepublic*
- "The name of the platform should be OutStanding instead of OutSystems as the platform is awesome" - *Pratik Shah, FICO*

As an existing user, or an OutSystems newcomer, you can now sign-up for access to your own free personal environment, which is your key to unlocking a new world of accelerated multi-device web application development. With this power you can:

- Free development environment to learn and experiment at your own pace
- No licensing restrictions on number or complexity of apps and users
- Free hosting, upgrades, and storage of up to 1GB of application data
- Leverage your existing expertise and code
- Get support from the [OutSystems Community](#)
- Perfectly suited for small deployments - personal apps with dozens of users
- Share your creations with the world without access or device concerns

The screenshot shows a user profile page for 'seanlauper'. The top navigation bar includes links for 'HOME', 'DOWNLOADS', 'PLATFORM', 'LEARN', and 'COMMUNITY', along with a search icon and user account details ('Sean'). Below the navigation, there's a large profile picture placeholder with a house icon. The user's name 'seanlauper.outsystemscloud.com' is displayed next to it. There are two buttons: 'LAUNCH THE STUDIO' and 'View my apps'. To the right, there's a callout box with the text 'Share OutSystems with your friends and colleagues.' and social sharing icons for Facebook, Twitter, LinkedIn, Google+, and Email.

Major performance improvements in 1-Click publishing and staging

8.0.1

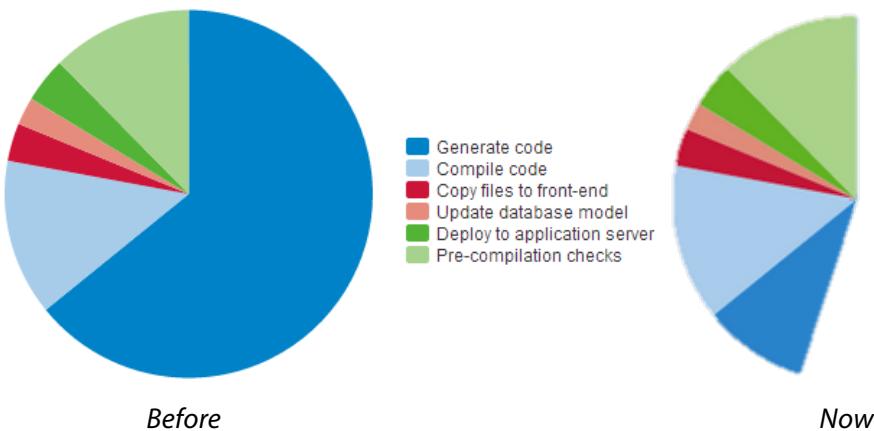
The day to day of an OutSystems developer is spent making heavy changes on critical applications, over and over. The 1-Click publish operation is a core part of this process, and one that is done dozens or hundreds of times per day.

Whenever you need to see the effect of changes you have done to an application, be it UI, Business Logic, Data Model or Integrations the Outsystems Platform lets you do that with just one click. Getting your changes done in the model, uploaded as a new version in the version control system, getting highly optimized Java or C# code out of it, getting it compiled and deployed to the cloud or across your on-premises server farm is a heavy lifting job. Sure enough, having it automated for you is a big help.

Such a critical piece requires constant tuning for increased reliance and performance. On this version, we've taken a giant leap, and introduced a huge increase in performance, not only in the 1-Click Publish process, but in a lot of the capabilities that rely on its technology.

In this version we've refactored the most lengthy part of the process (transforming / generating the model into highly performant code), achieving optimizations that decrease the time required for the entire 1-click publish process. This part of the process had **an average performance improvement of 86%**.

Overall, going from application change to application running is now up to **60% faster!**



These improvements will be noticed on every operation that implies generating code out of your model. As such you can expect similar level of overall improvements in the following operations:

- Publishing an application for the first time
- Making a change to an existing application
- Publishing existing modules, solutions or solution versions
- Staging applications between environments

Immediate Test Query

8.0.1

Along with these improvements in code generation, we've refactored one of the most important actions that, as a developer, you use every day. Testing a query, to check if you're doing everything right, debugging it or fine tune it against example data or different conditions before actually deploying the new version is done over and over again when you're developing. This operation usually took around 14 seconds.

Now it is immediate! Only depending on the ability of your database to handle it, of course.

Overall, all of these changes represent a huge productivity increase in your daily work, allow you to test more often, and makes the operation of staging an application to Production even leaner.

Real user performance monitoring

After you build your great application, the next step to have a truly great enterprise application is performance. Applications that cannot handle the frantic pace of business will either have to be replaced or will cause tremendous amounts of heartburn to end users. Furthermore, applications that take significant time to process - either getting a report or processing an order - will potentially delay important business processes, resulting in lost opportunities or worse. All having a very real impact on your business.

Unfortunately, it is very common to leave performance as an afterthought to the development process. The development team is primarily focused on features, change requests, and bug fixing. More often than not, performance problems only start to appear when applications get to production and need to compete for resources or handle more load. On top of this, performance management and tuning can be a challenging discipline depending on the skill of the team and tools available.

Get Real Performance Insights

OutSystems Platform 8 brings you an entire new way of measuring the performance of your applications. Every millisecond a user is waiting from the moment they click until the moment they can work on the result is critical. Instead of looking at system specific metrics (such as CPU or Memory usage levels), that don't provide insight into the real user experience, you can now measure the performance of your applications from the point of view of your users.

The new Performance management module in LifeTime, collects information sent by the browsers of your users (with no performance impact of course). It centralizes this information for every single application you deploy, providing you a simple dashboard, based on industry standard indicators of user satisfaction (the [Application Performance Index](#)).

This screenshot shows the OutSystems Performance Monitor dashboard. At the top, there's a navigation bar with tabs for lifetime, agileplatform, Applications, Users & Roles, Infrastructure, Performance (which is selected), More, and John Ops. Below the navigation is a welcome message: "Welcome to Performance Monitor". A callout box says "Monitoring is off. Enable performance monitoring by setting your Configuration". There are three main sections: "Get real performance insights", "Maintain performance over time", and "React when it is time". The "Performance in Production today" section displays a chart titled "Score" with a value of 87% (green), a trend of 7% (red), page views of 14.9M, and load time of 1.7s. It also lists applications: Vacations (88%, 7%, 9.4M, 1.6s), Cases (83%, 6%, 3.6M, 2.1s), Directory (91%, N/A, 1.2M, 1.2s), and eCommerce (99%, N/A, 630.2K, 0.7s). A "Page Views" line graph shows data from April 18 to May 2.

This screenshot shows the OutSystems Performance Monitor dashboard with a title "Performance in Production since Apr 17". It includes a "Configuration" link and a navigation bar with tabs for Today, Last Week, Last Month, Last Year, Other, Applications, Users & Roles, Infrastructure, Performance (selected), More, and John Ops. Below the navigation is a "Score" summary: Score (85%), Trend (7% red), Page Views (5.9M), and Load Time (1.8s). A "Sort Applications by Page Views" dropdown is shown. The main area displays a table of applications with their scores, trends, page views, and load times:

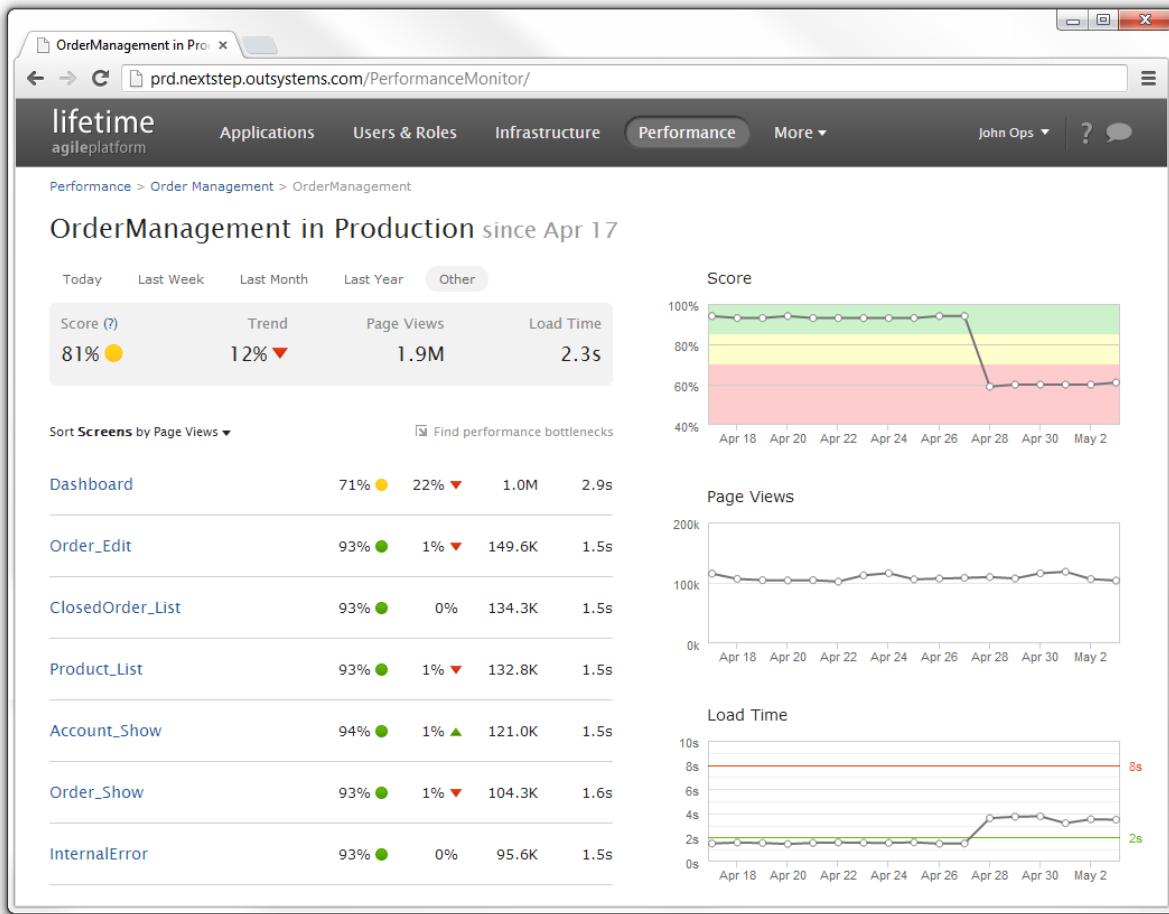
Application	Score (%)	Trend	Page Views	Load Time
Employee Directory	82%	5% ▼	2.2M	2.1s
Order Management	81%	12% ▼	1.9M	2.3s
Expenses	93%	1% ▼	737.0K	0.8s
Sales	94%	0%	596.0K	0.7s

Below the table are two line graphs: "Score" (a line graph from April 18 to May 2) and "Page Views" (a line graph from April 18 to May 2).

Maintain applications performing over time

A set of simple indicators allow you to understand if applications are degrading in performance as usage grows, or if your system is ready to handle increasing demand.

You can easily drill down to the screen level and assess the performance across time to understand that a simple change in the homepage of an application was having a significant impact on the experience of your users. It would take you days to pinpoint this kind of problems, using traditional tools.



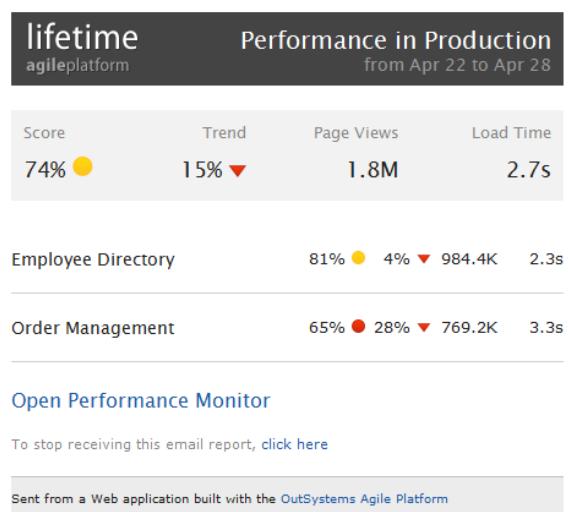
React before your users complain

Built in reporting allows you to be constantly aware of the system performance status, and its evolution through time. You don't need to constantly monitor the system to know there is a problem - issues will be delivered to your mailbox.

The OutSystems Platform automatically determines the evolution trend of your application performance, so you can understand beforehand if a small degradation will become a big problem.

All of these capabilities packed together allow you to ensure your end user's satisfaction. You can easily understand if you're fulfilling your performance SLA. If a user calls in saying the application is slow on their machine, everyone in your IT team will be aligned as they will all have access to the same simple set of performance measures - those perceived by the end users.

From: Outsystems Demo
Sent: Tuesday, April 30, 2013
To: Gonçalo Borrega
Subject: Performance in Production from Apr 22 to Apr 28



Extend the OutSystems Platform

The OutSystems Platform not only gives you a great toolset for the delivery and management of your applications, but also provides a flexible framework that allows you to extend built-in capabilities to your specific needs. Our community of developers has created great extensions that build upon the native capabilities and provide new dashboard and insights into your development process, extend and integrate with other toolsets, or deliver custom capabilities for the teams managing large application portfolios.

In version 8, a new set of APIs is available that allow you to take a step further.

Performance Monitoring API

All the insight gathered by the new User Performance monitoring capability is publicly exposed in an easy to use API. You can easily extend the dashboards provided by the OutSystems Platform using this API. Understanding the experience based on your users' location, the distribution of browsers or even the kind of device they're using, can easily be done using this API. Mashing this information with your own application's business data can give your team, in just a few minutes, the performance insight necessary to take usability to the next level.



Security governance API

8.0.1

LifeTime provides a complete set of user and role management capabilities to enforce security policies across your infrastructure. These policies can be managed using an intuitive user interface in the OutSystems Platform management console.

	Configure Infrastructure	Development	Production
Administrator	✓	Full Control	Full Control
Developer		Change & Deploy	List

But most enterprises already have centralized systems to manage authentication and authorization of their IT users, so that devs, ops, and admins don't need to provide different sets of credentials for different systems, and IT doesn't have to manage those credentials in multiple identity management stores.

By providing a programmatic way to manage platform users, roles and their permissions across applications and environments, you can now automate the task of creating and changing users and user privileges, so they don't have to spend time manually updating credentials and privileges across different systems, thus reducing the risk of errors and inconsistencies that breach your security policies.

Lifecycle API

A new set of APIs is available to let you get detailed information about each application's architecture or version control information, and cross reference it with the deployment process.

Getting an automatic report of who has moved something into production, to be sent to your Change Management department or integrate it in an external Change Management system is as easy as dragging 5 actions on a screen.

And there are many more use cases: advanced factory architecture visualizations for enhanced insight and control over your application portfolio... The possibilities are endless.

LifeTime Plugin SDK



To wrap all these capabilities and allow a unified experience, you can now extend LifeTime with your plugins. They are fully integrated in the LifeTime navigation, and you have single sign-on across all those modules. If you build an integration with a Project Management tool, an Issue Tracker, or any other tool to help you deliver your applications, you can integrate them in a single dashboard, and use the information in the OutSystems Platform to have a seamless experience.

OutSystems Forge improvements

To make you even more productive when leveraging the power of the Community, we have improved our open source repository of components - the [OutSystems Forge](#) - with new tagging and search capabilities, making it easier than ever to explore and locate the components you need: whether a complete sample to use as a starting point for your application, a service adapter to easily integrate with external services like Salesforce or Google Docs, or visual components you can reuse across your UIs.

A screenshot of the OutSystems Forge component repository. The page has a header with the 'outsystems' community logo, a search bar, and user profile information for 'Arlindo Lima'. Below the header, there's a main search area with a 'Type to search by tag or component' input field and a 'FILTER' button. A message says 'Hundreds of Components Ready to Use and Change!'. There are three main component cards displayed: 1) 'GeoPerformance Plug-in' (GeoPerformance Plug-in, LifeTimePlug-in, UXperformance, Database) with 6 votes, 178 downloads, and published on 01 May 2013 by R&D Perf Team. 2) 'ECT Server for Rally' (ProjectManagement) with 7 votes, 23 downloads, and published on 12 April 2013 by Samuel Jesus. 3) 'Oracle connector' (Database, Community) with 22 votes, 74 download, and published on 10 April 2013 by André Palma. To the right of the components are two sidebar boxes: 'Something cool to share?' with an 'ADD NEW COMPONENT' button, and 'MOST USED TAGS' listing 'Community' (x 8), 'UXperformance' (x 5), 'Usability' (x 5), 'Database' (x 3), and 'ProjectManagement' (x 2). Another sidebar box at the bottom right says 'PLATFORM DOWNLOAD' with a call to action to get the Agile Platform free community edition.

(Even more) Secure Applications



Enterprise Security



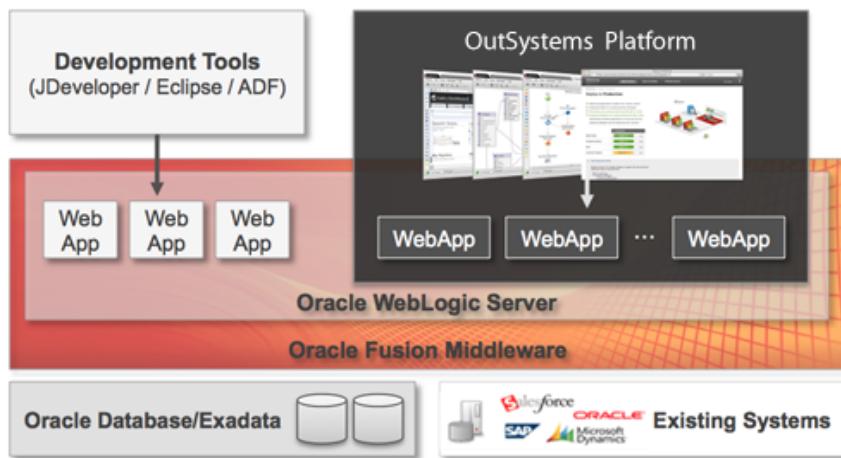
OutSystems is now systematically validating the security of the code that is generated for both web and mobile web applications. Using HP Fortify Static Code Analyzer the OutSystems R&D team performs advanced vulnerability scanning on OutSystems generated code during regression testing, and has defined key acceptance criteria regarding web security for all generated code to eliminate all critical, high and medium vulnerabilities. HP Fortify was selected based on its broad adoption in OutSystems customers and support for vulnerability scanning for both the .NET and Java stacks.

This gives you an extended security level regarding the code generated by the platform, enabling you to rapidly build and maintain web and mobile applications that are inherently secure, and ultimately reduce your cost of maintenance as new security vulnerabilities are automatically fixed in the OutSystems Platform's code generators.

Extended Java support

Unprecedented productivity on top of Oracle Fusion Middleware

OutSystems Platform 8 now offers full support for Oracle Fusion Middleware, allowing customers to deploy and manage applications in both Weblogic Server 11g and 12c. With WebLogic Server, OutSystems customers will be able to deliver Java-based solutions on top of the industry leading Java application server, simplifying the build, test and deploy cycle for custom web and mobile development projects.



Jboss 7 support

8.0.1

Take advantage of a leaner application server, that starts faster, has a lower memory footprint and allows you to harness all the capabilities of Java EE 6 while enjoying the high productivity of the Outsystems Platform. Jboss Enterprise Application Server 6.1 and Jboss Community 7.1 support comes in addition to the support for JBoss Enterprise 5.1, Community 5.1 as well as support for WebLogic and IIS application servers.

What's next?

To see all these new features and capabilities in action, [download the new OutSystems Platform 8](#) today and check it out for yourself!