Magic xpa 4.1 Release Notes

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New Features and Enhancements

We are delighted to present the Magic xpa 4.1 update with new features and enhancements.

New Features

The following new features are added in Magic xpa 4.1.

Magic xpa Needs Angular 7

Magic xpa 4.1 update now works with Angular 7.

Support for Row Editing in Table Control

Magic xpa now supports editing a row in Table control. The following new features are added to be able to achieve the row editing functionality.

- A new internal event named 'Enter Row Editing'
- A new Magic function named 'IsRowEditing()'

Support for Updating Magic Data View from Outside

Magic xpa now adds the ability to update the variables defined in Data View from Angular code. Consider it to implement uploading files to the server.

New Function DataViewToJSON()

Magic xpa introduces a new function DataViewToJSON() to return the data from program Data View to JSON format to be able to read it from Angular code.

Support for Date Field Using Form Control

Magic xpa now supports editing Date field using Input Type = Date. This is applicable for Native theme. The Date value accessor is added to support editing Date field, which is inspired by angular-date-value-accessor: https://www.npmjs.com/package/angular-date-value-accessor.

Enhancements

The following enhancements are added in Magic xpa 4.1.

Easy Row Selection

You can select a row by clicking anywhere on the desired row. If you click on the disabled controls placed on the desired row, the control does not select the desired row.

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Provision for Better Clarity in Console Messages

In order to bring more clarity with the source of errors in console, Magic xpa now marks the errors to indicate that they are distinctively from Magic.

Record Flush Event - Control Re-fetching from DB

An optional parameter named 'Refetch Record' is now added to the Internal Event 'Record Flush' to control whether the event will re-fetch the record from the database.

Fixed Issue

Defect	Description
154736	In a particular case, not all records are displayed while calling a program using Route.

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Past Release Notes

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Magic xpa 4.0

The Magic Web Application Framework

We are delighted to introduce our most awaited offering of Magic xpa, the Magic Web Application Framework, to provide rapid business application development with modern UI development capabilities using Angular, HTML5, and CSS.
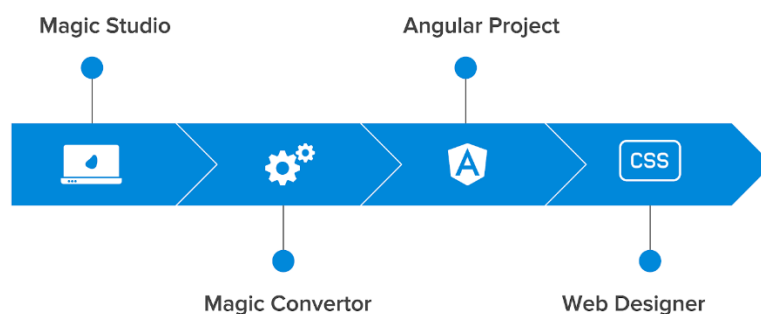
Apps Powered by Angular

You can now easily create modern business apps powered by Angular to provide a rich user experience and meet the increasingly complex enterprise business expectations for digital transformation.

You can now take your Magic xpa business logic for the back and the front end, and easily generate Angular code from it. The new Angular-based application can then work seamlessly with any Web presentation framework. The new Web application framework is beneficial in the following ways:

- You are free to tap into the world of Angular.
- Your apps are client-free since the deployed application is pure JS, HTML5, and CSS3.
- You can outsource the screens design.

The Web Client application generation can be viewed in the following illustration:

1. In the **Magic Studio,** you define your business logic.
2. In the Magic studio, with just a click of a button, you generate your Angular code using the **Magic Converter**, which is customizable by advanced users.
3. In **Angular,** your code is now ready-to-use, but you can also add additional Angular code that is pure client-side logic using some Magic tags.

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4. Outside the Magic, you or a designer can update your screens using **HTML and CSS**.

In this way, you can develop highly-responsive Web applications in no time. You can use the structured, low-code Magic xpa development platform for creating the business logic together with an open platform for the presenting your screens including the UI and the UX.

Why Do You Need Magic's Web Application Framework?

Here is why you need Magic's Web Application:

Magic and Angular Fit Well Together

Applications created with Magic's Web application framework will be pure Angular applications, meaning they will be deployed and managed exactly like any Angular application.

State-of-the-art Technology

Magic's Web application framework uses state-of-the-art client-side technologies including JavaScript, Angular, CSS3, HTML5, and TypeScript. You can create full-fledged business heavy-duty, transaction intensive web-based applications including data entry, enabling you to integrate your applications with Web Technology.

Magic xpa's Client-side Architecture

All of the UI-related work, including the UI logic, is done by the browser (the client), which enables you to create fast and dynamic Web applications. In this architecture, the server only sends raw data to the client and the client generates the screen.

Manageable Large Scale Angular Applications

Over the years, the number of lines of code needed to develop functionality-intensive Web applications has been growing at a very rapid pace. As applications are evolving, the market keeps coming up with better ways to handle the ever-increasing lines of code.

Advanced Customization of Your UIs

The beauty of the decoupling of the UI and logic, which Magic's Web application framework makes possible, is the flexibility to split the effort and time invested, between the business logic and the UI/UX.

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Less Code; More Versatility

The Magic engine's robust business logic paradigm can save a lot of code in Angular. It helps to set-up most of the behind-the-scenes logic for presenting the UI dynamically.

Magic offers a wide range of control and form properties, which are very simple to use and can save a lot of lines of coding in Angular. For example, validation, recompute, conditions, visible, enabled, tooltips, and more.

Expressions on any of the properties are very easy to use in Magic, which otherwise would take dozens of lines of codes to develop in Angular, to achieve dynamic behavior in apps.

The appearance properties, such as Font, were removed and the basic appearance is done in HTML/CSS/Angular. The remaining properties are for either binding or behavior and these are set in Magic with no need to code these functionalities in Angular. So, by adding a tag to Angular for one of these binding or behavior functionalities, you are basically linking Magic to Angular.

Fully Compliant with Single-Page Applications (SPAs)

Magic's Web application framework is fully compliant with single-page applications (SPA), which provide a smoother and richer user experience.

Cloud Enabler: The Sky's the Limit

Since the Web client is Web-enabled, running in the browser, the Web client is cloud enabled. This means that your apps can be deployed on any cloud.

Cross Browser Support and Portability

Your Web applications will be platform-agnostic. They will run on any browser and on any device with zero footprint. You do not need to install anything.

Ease of Maintenance in the Future

You can change your application logic from Magic and it will be reflected automatically in your Angular-based apps. Thus, there are less efforts to make changes in your application in future.

Full Git Support

Magic xpa is equipped to empower team development with its full Git support (including branching and merging).

About Magic Software Enterprises

Magic Software Enterprises (NASDAQ: MGIC) empowers customers and partners around the globe with smarter technology that provides a multi-channel user experience of enterprise logic and data.

We draw on 30 years of experience, millions of installations worldwide, and strategic alliances with global IT leaders, including IBM, Microsoft, Oracle, Salesforce.com, and SAP, to enable our customers to seamlessly adopt new technologies and maximize business opportunities.

For more information, visit www.magicsoftware.com.