



Component-based User Interface Development

Broadcast Advertising SaaS Product Suite

About the client

The client is at the forefront of the convergence of media and technology by digitally transforming the creation, distribution and consumption of content. \$1 out of every \$4 ad dollars globally runs through their solutions.

With nearly half the world's video channels traversing their products and their software solutions driving nearly \$50B in global revenue for their customers, they deliver the most advanced IP, cloud-enabled, software defined network and workflow solutions for the media and entertainment industry.

Client need

To create a modern component-based web application that can accommodate multiple purposes by connecting different front-end UIs to different back-end microservices. UI and microservices modules should be independent, use separate libraries, avoid using join database queries, and are dynamically merged to create a fully functional application.

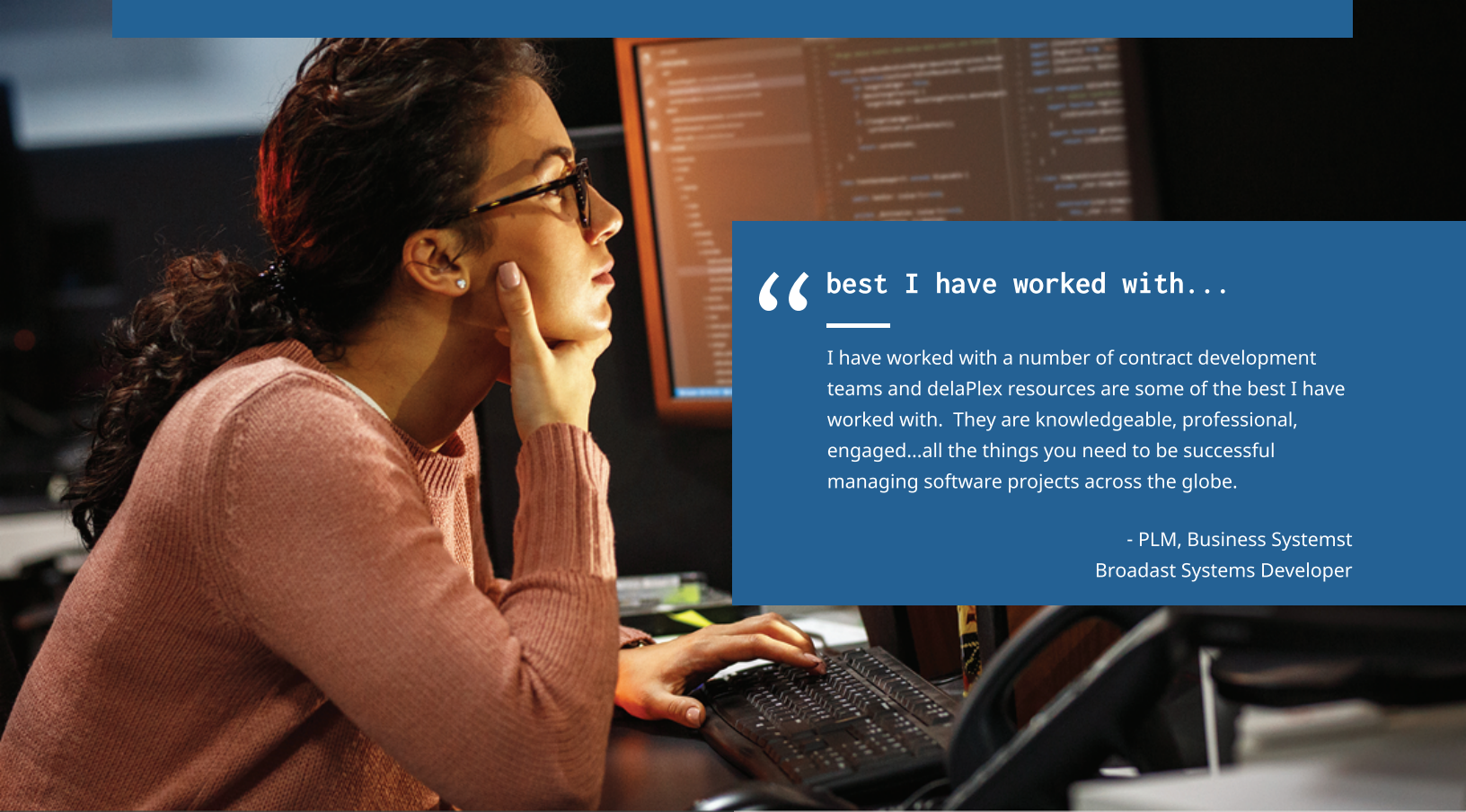
Product challenges

Creating microservices and APIs so UI modules work independently and seamlessly to significantly improve performance and user experience. Two main repositories are used to house a collection of libraries: Common Components, for independent functional libraries, and Chassis, used to create and manage the state of the application.

The delaplex solution

delaplex helped develop a dynamic web application that delivers significant performance and modularity all running in the cloud.

UI rendering is in the web browser (HTML5 + JS lifecycle framework) handling validation of user input locally. Discrete domain-specific RESTful services handle complex validation, data storage/retrieval and business processes. Background tasks are managed via UI. Time consuming app background processes moved to a job service. Functionality requiring an immediate user response are added as C# services and are tightly coupled to the UI.



“ best I have worked with...”

I have worked with a number of contract development teams and delaPlex resources are some of the best I have worked with. They are knowledgeable, professional, engaged...all the things you need to be successful managing software projects across the globe.

- PLM, Business Systemst
Broadcast Systems Developer

How we did it

delaPlex developed a distributed systems platform to offer functional modularity and to application increase usability and performance.

- **Cloud Platform**
Microsoft Azure Cloud | Azure Service Fabric
- **Web Technologies**
Web API using C# .NET (microservices architecture)
Angular 8 | HTML | CSS | Angular Material
PrimeNG | Storybook | Swagger
- **Data Tools**
Entity Framework
- **Database**
Oracle 12C | MS SQL Server
- **QA and Automated Testing**
Cypress | Jest

Core stack



delaPlex is a global technology and software development solutions and consulting provider helping companies drive growth, revenue and marketplace value. Our innovative business methodology has built an unmatched reputation of bringing an alliance of collaborative industry experts, across industries and skillsets, to clients anywhere around the world.



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