

RE-ARCHITECTING DOCUMENT DISTRIBUTION PRODUCT USING SERVICE ORIENTED ARCHITECTURE PRINCIPLES

The client is household name in the field of imaging technologies and also an admired name in Multi-functional peripherals. Tightly coupled architecture of the document distribution product did not allow customizations as per customer's needs. The product has been re-redesigned around Service Oriented Architecture principles providing flexibility to end-users to buy the specific features that they required in the product.

CHALLENGE

Due to tightly coupled architecture of Document Distribution Product, client could not customize the product as per end customer's need. They wanted to redesign the Product for easy customization along with plug-and-play architecture. The biggest challenge was to support all the functionalities as it is in the new architecture to ensure that current customers could easily upgrade their systems.

SOLUTION

- ⊗ A team of Newgen Architects worked on the client side for around 6 weeks, to understand the current Document Distribution Product and redesign the new architecture. The team also estimated the efforts and timelines for developing the new product.
- ⊗ To support easy customization, independent component were designed in the new architecture. For example Document Collector, Document Analyzer and Document Distributor were designed as separate components while earlier all these activities were managed by single module.
- ⊗ To empower the end customer to add new components for Document Collector, Document Distributor etc. plug-in-play architecture was implemented. Standard SDK was designed and architecture details were documented for building new components.
- ⊗ Product integration with high end MFP device was implemented using open API of MFP device and .Net Remote Networking.

BENEFITS

- ⊗ Service Oriented Architecture gave flexibility for user to add his own input source and destination and get the documents transferred using the system
- ⊗ The system performance has improved
- ⊗ Users have flexibility to develop their own plug-ins as per their need
- ⊗ Gave customers flexibility to buy specific features required

TECHNOLOGIES

- ⊗ VC++,C#
- ⊗ Webserver (IIS)
- ⊗ ASP .Net
- ⊗ SOAP
- ⊗ COM

PROJECT TEAM

- ⊗ 200 person months
- ⊗ 8 person team

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