



Quality Assurance Record

Overview

A Quality Assurance Record (or Document) captures complete information about a particular Business Entity when it reaches a particular status. For example, a Quality Assurance Record can be generated for an Engineering Change or Action Tracking within Ventyx Asset Suite when it reaches COMPLETE status.

A Quality Assurance Record may be used to satisfy Regulatory and Data Quality requirements.

DataGlance Solution for Ventyx Asset Suite

DataGlance Framework provides an integrated platform to design, build, test, and deploy a comprehensive Quality Assurance Record generation solution for Ventyx Asset Suite.

A Quality Assurance Record can be generated using data from:

- ◆ Ventyx Database
- ◆ Ventyx BLOB/OLE Data in native or text format
- ◆ Documents, Drawings, Sketches, Images from External File System
- ◆ Documents, Drawings, Sketches, Images from EDMS
- ◆ Integrating data from third party Products and Services

A Quality Assurance Record is a single PDF documents. It is generated with Table of Contents and Bookmark for easy navigation.

A Quality Assurance Record can be configured to generate in real time, batch, or on a scheduled cycle.

A Quality Assurance Record is accessible using:

- ◆ Web Browser
- ◆ Web Service
- ◆ Ventyx Panel

A Quality Assurance Record can be indexed into an Electronic Document Management System (EDMS) for search capability.

The solution is implemented using DataGlance products, DocPlus and ServicePlus along with Ventyx Specific Solution developed by DataGlance.

DocPlus is used to design, develop, test, and deploy the document using Ventyx Specific Solution.

ServicePlus is required if the document needs to be accessible using a Web Service, a Custom User Interface or from a Ventyx Panel.

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DocPlus

DataGlance, **DocPlus** is to generate document by combining Structured and Unstructured Data into a single document. It can be used to generate Quality Assurance and Audit document.

A document can include information from multiple Products, Data Sources, and Unstructured Data including word document, excel worksheet, drawing, sketches, images, flat files etc.

The data from multiple sources are combined into a single PDF document. It can be optionally configured to generate an XML file with document data. The XML data can be used to index the document in Electronic Document Management System (EDMS) to support search capability.

Use **DocPlus** to:

- ◆ Combine structured and unstructured data into a single document for Quality Assurance Record, Audit, and Data Quality
- ◆ Generate Operational Report

Product Features

- ◆ Easy to use drag and drop document Designer
- ◆ Point and Click support to include Unstructured Data
- ◆ Include support for Barcode and Watermark in the document
- ◆ Include support to include PDF Signature and Form fields
- ◆ Include Table Of Contents and Bookmark
- ◆ Automate the complete process to load and index into EDMS
- ◆ Generate document in real time, batch or on a scheduled cycle
- ◆ Document generated in PDF format with Table of Contents and Bookmark
- ◆ **Option to convert document into multiple formats (TIFF, Microsoft Word)**
- ◆ **Option to include Word document revision/markup**
- ◆ Maintain document generation history
- ◆ Built-in support for Error Handling and Monitoring
- ◆ **Ability to print on different printers based on document page size or other parameters including Plotter document**
- ◆ **Ability to email and/or fax the document**

ServicePlus

DataGlance, **ServicePlus** provides a comprehensive design, development, and deployment Framework for Services based on Service Oriented Architecture (SOA). The services can be accessed using http/https URL. The document developed and deployed using DocPlus can be accessed as a service using ServicePlus.

Use **ServicePlus** to:

- ◆ Develop and expose a common set of services using a standard URL
- ◆ Perform XML transformation
- ◆ Implement a data hub to receive XML data in various formats and transform it to a companywide standard XML format



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- ◆ Build interface for products that only support XML based interface
- ◆ Build a bridge for a product that does not support data in XML format
- ◆ Build custom web based user Interface to any product
- ◆ Provides web based user interface to browse XML data generated by a Service
- ◆ Provides the capability to expose the DocPlus document as a Service

Product Features

- ◆ The service is build code free using easy to use user interface
- ◆ View the XML data generated by a Service using DataGlance web based user interface before it is exposed to the outside application
- ◆ Build and expose services using a standard http/https URL (XML over http/https)
- ◆ Built in XML Designer to define XML
- ◆ Built in Mapping and Transformation to define XML transformation
- ◆ Combine XML data from different products into single XML
- ◆ Build Service to expose DocPlus document in real-time or integrate with other application

◆ **Ventyx Specific Solution**

DataGlance provides solution to support Quality Assurance Record Generation for Ventyx Asset Suite.

The solution includes:

Business Object: DataGlance provides pre-build Business Objects (Relation) for Ventyx Asset Suite Entity (Work Order, Engineering Change, Action Tracking etc.). This Business Object is used to build the Quality Assurance Record.

BLOB/OLE Data Extraction: Ventyx Asset Suite stores unstructured data (Microsoft Word, Excel, etc.) in the database structure called BLOB (Binary Linked Object). It can be stored either in EMBED or LINK format. DataGlance provides a solution to extract the unstructured data from Ventyx Asset Suite and include them in the Quality Assurance Record.

EDMS Document: The document stored in External Document Management System (EDMS) and referenced in Ventyx is extracted and included in the final document.

PDF conversion: All documents included in the Quality Assurance Record are converted to PDF format before it is included in the document. DataGlance provides pre-build solution to convert different file formats to PDF. The PDF conversion maintains the original document layout.

The solution is used at Ventyx customer to build:

- ◆ **Work Order Print Package**
- ◆ **Purchase Order**
- ◆ **Contract**
- ◆ **Request for Proposal**
- ◆ **Request for Quote**
- ◆ **Engineering Change Quality Assurance Record**
- ◆ **Action Tracking Quality Assurance Record**



Quality Assurance Record

The documents are directly accessible from Ventyx panels using a URL minimizing any user training.

Why DataGlance Solution?

ROI

- ◆ DataGlance, DocPlus and ServicePlus products along with Ventyx specific solution provides the complete framework to build and deploy a comprehensive Quality Assurance Record generation process at a substantial saving over manual effort
- ◆ Generate Document in real-time to provide point-in-time snapshot of Ventyx Asset Suite Business Entity status reducing time in day-to-day management
- ◆ Index the Quality Assurance Record in a Document Management System (EDMS) to support search capability reducing cost and problem associated with manual effort
- ◆ Document generated with PDF index and links to facilitate easy navigation within Document, reducing time to analyze it
- ◆ Easy to modify document to meet changing needs, minimizing maintenance cost
- ◆ Fully automated process reducing cost and manual errors
- ◆ **Address similar requirements in other products**
- ◆ **Simple Server based licensing model with unlimited user license**

Easy of Development

- ◆ Easy to use Document Designer to visually design the layout
- ◆ Easy to modify existing the Layout to meet changing needs
- ◆ Document based on pre-build Business Objects, eliminating the need to understand complex Data Relationship within Ventyx Asset Suite
- ◆ No source code to compile, test, and deploy
- ◆ No Programming experience required

Management

- ◆ Provides built-in capability for record management
- ◆ Generate XML data for indexing for easy search
- ◆ Fully Automated process with built-in Error Handling and Monitoring

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