

	P001849 eB EPR Implementation		
	City of Corpus Christi		
	Laserfiche Integration Change Request		
	Version 01v00	Date 01/27/2016	Page 1 of 5

Change request number	C002	Bentley project number	P001849
Short description	<p>The City of Corpus Christi currently utilizes Laserfiche as their enterprise EDMS. After files have finished all necessary processing for Plan Review purposes, they need to be moved to the Laserfiche system for final archive. To accomplish this, a windows Service needs to be created to pull eB data into a specifically formatted XML structure for Laserfiche consumption. The Windows Service will also pull down files related to the requested eB data. All retrieved files and XML will be saved locally to the Windows Service. The windows service will be installed on Corpus Christi local servers. These features were not a part of the scope of services stated in the accepted proposal. This Change Request adds these features. The functionality associated with the integration is described in detail in the long description.</p>		
Issued by	Bentley Systems, Incorporated		
Issue date	January 27, 2016		
Status	Issued <input checked="" type="checkbox"/> Under discussion <input type="checkbox"/> Accepted <input type="checkbox"/> Rejected <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Reason	
Impact short description	<p>The Laserfiche integration mentioned above and described in detail in the long description will be delivered for the additional fixed fee of \$43,750.00. This integration will be delivered as a part of the overall eB EPR Implementation deployment or as a post-deployment implementation. Accomplishing this integration will require additional eB development resources. The City of Corpus Christi deems this enhanced integration essential to project success. Note: Since there is only several weeks required to implement the integration, it is unlikely that the deployment schedule will be affected.</p>		
Project status	<p>The project is in the final development stage, moving into the UAT stage.</p>		
Acceptance	City of Corpus Christi	Bentley	
	Alex Barabanov	Gene Mangum	
	<date>	January 27, 2016	
	<signature>		

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	P001849 eB EPR Implementation		
	City of Corpus Christi		
	Laserfiche Integration Change Request		
	Version 01v00	Date 01/27/2016	Page 2 of 5

1 LONG DESCRIPTION OF CHANGE

1.1 REASON

Purpose - The City of Corpus Christi currently utilizes Laserfiche as their enterprise EDMS. After files have finished all necessary processing for Plan Review purposes, they need to be moved to the Laserfiche system for final archive. To accomplish this, a windows Service needs to be created to pull eB data into a specifically formatted XML structure for Laserfiche consumption. The Windows Service will also pull down files related to the requested eB data. All retrieved files and XML will be saved locally to the Windows Service. The windows service will be installed on Corpus Christi local servers. These features were not a part of the scope of services stated in the accepted proposal. This Change Request adds these features.

Scope – The scope is described in the following bullets:

- Bentley will provide a Web Service that will be used to create Laserfiche XML file (defined below), provide access to requested eB files, and data download validation.
- Bentley will provide a Windows Service that will provide as a gateway to the Web Service. It will periodically pull call the Web Service to a user configurable folder location.
- Bentley is not responsible for Laserfiche operation.
- Bentley Windows Service will not communicate directly with Laserfiche.
- Bentley will use User Authentication to limit access to Web Service.
- Bentley will use HTTPS to communicate between Windows Service and Web Service.
- Bentley will not be responsible for securing files and data stored on Corpus Christi servers by the Windows Service.

Design Overview - The design will include three primary components. First, a library needs to be created to handle the business logic so that it can be reused if at some point the City wants this process to run in something other than an application service. Next, a web service needs to be created to accept calls from the windows service that will be installed locally and utilize the library that contains the business logic. Lastly, an application service will be built to make calls to the web service as applicable and perform file handling.

Deliverables – These are the deliverables:


- Web Service to receive calls from local application service and store files (XML and Original) in staging folder
- Installable application service to run on Corpus Christi local servers.

Dependencies – These are the dependencies:

- Corpus Christi must provide a local server and appropriate access for Bentley to install and configure the service

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	P001849 eB EPR Implementation		
	City of Corpus Christi		
	Laserfiche Integration Change Request		
	Version 01v00	Date 01/27/2016	Page 3 of 5

- Corpus Christi must provide resources to handle actual loading of the files into Laserfiche from staging folder
- Corpus Christi must provide resources for testing to ensure objectives are met for Laserfiche Integration

Configurable Options on Windows Service -

- Root staging folder
- Document Attribute/Property used for staging folder naming
- Hours between runs
- Work Batch size


Laserfiche XML Structure – The XML Structure is shown here:

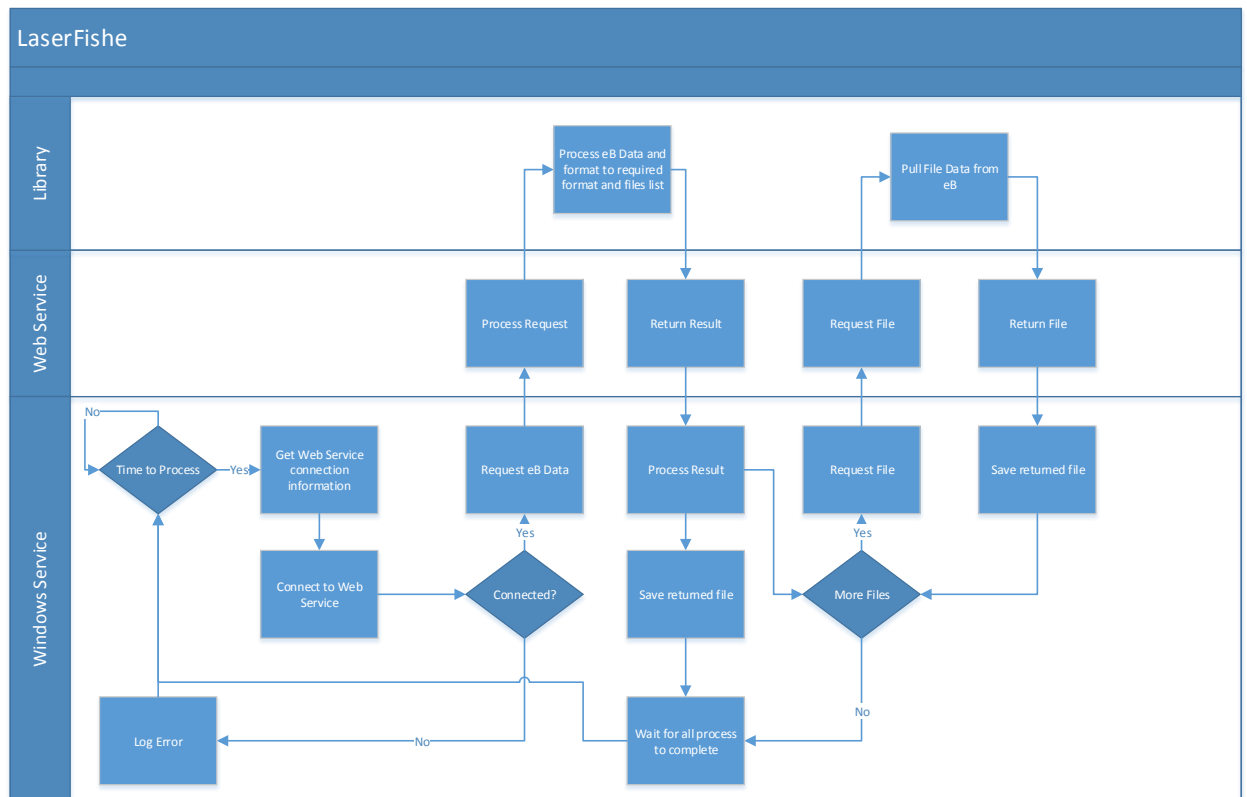
XML Element	Description
<BentleyEPR>	
<Project>	
<id>123</id>	eB Id of Parent Project Document
<name>COM-2015-0003 </name>	eB Code Property of Parent Project Document
<Approval Status>Approved</Approval Status>	eB Approval Status Property of Parent Project Document
<Class>COMMERCIAL NEW BUILDING</Class>	eB Class Property of Parent Project Document
<Path>\\ATLEPRSRV1\CORPUserFilesSource\123</Path>	Local Path for Parent Project Document
<CreateDate>2009-05-22T17:28:00-05:00</CreateDate>	
<EndDate>2009-11-22T17:28:00-06:00</EndDate>	
<Title>111 Main St</Title>	eB Title Property of Parent Project Document
<MetadataDefs>	
<ApplicationNumber>BLDG-2015-00001</ApplicationNumber>	eB Application # Attribute of Parent Project Document
<ApplicationType>COM</ApplicationType>	eB Application Type Attribute of Parent Project Document
<Comments>None</Comments>	eB Comments Attribute of Parent Project Document
<WorkType>New Construction</WorkType>	eB Work Type Attribute of Parent Project Document
<SquareFootage>1000</SquareFootage>	eB Square Footage Attribute of Parent Project Document
<DeclaredValuation>50000 </DeclaredValuation>	eB Declared Valuation Attribute of Parent Project Document
<ReviewStatus>Closed in Infor</ReviewStatus>	eB Review Status Attribute of Parent Project Document
</MetadataDefs>	
</Project>	
<Files>	
<File>	This section will be repeated for every File in Project structure
<FileId>168</FileId>	eB Id of the file
<DocId>456</DocId>	eB Id of file's Container Document
<Number>PLN-0001 </ Number >	eB Number property of file's container Document
<Filename>La Palmera Storm3.pdf</Filename>	
<FileSize>8652</FileSize>	
<Path>456\168\orig\La Palmera Storm3.pdf</Path>	Path to file under Project Path
<CreationDate>2009-05-22T17:37:00-05:00</CreationDate>	
<PublishDate>2009-05-22T17:37:00-05:00</PublishDate>	
<CopyName>orig</CopyName>	File's Copy Name
<Version>1</Version>	eB Version property of file's Container Document
</File>	
</Files>	
</BentleyEPR>	

Process Flow – The process flow is shown here:

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	P001849 eB EPR Implementation		
	City of Corpus Christi		
	Laserfiche Integration Change Request		
	Version 01v00	Date 01/27/2016	Page 4 of 5



1.2 STATUS OF PROJECT

The project is in the final development stage, moving into the user acceptance test stage.

1.3 ALTERNATIVES

There are no viable alternatives other than the changes described above.

2 IMPACT LONG DESCRIPTION

2.1 TO COST

The integration described above will be delivered for the additional fixed fee of \$43,750.00.

2.2 TO TIMELINE

Since there is only several weeks required to implement the integration, it is unlikely that the deployment schedule will be affected.

2.3 TO WBS WORKPACKAGES


The integration will not affect current work packages. This is planned to occur at or post deployment.

2.4 TO DELIVERABLES

The integration will either be delivered as a part of the overall eB EPR Implementation deployment or as a post-deployment implementation.

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	P001849 eB EPR Implementation		
	City of Corpus Christi		
	Laserfiche Integration Change Request		
	Version 01v00	Date 01/27/2016	Page 5 of 5

2.5 TO TEAM COMPOSITION

Accomplishing the integration will require the services of additional eB development resources.

2.6 TO PEP OVERALL

No substantial changes will be required to the PEP. The integration will become part of the deliverables.

2.7 TO OTHER DOCUMENTS

No substantial changes will be required to other documents.

3 IMPACT OF NOT ACCEPTING THIS CHANGE REQUEST

3.1 TO PROJECT SUCCESS

Bentley's understanding is that the City of Corpus Christi deems this integration to be essential to project success.

3.2 TO OBJECTIVES

Since the City of Corpus Christi deems this integration to be essential to project success, without it, the overall objectives of the project will not be met.

4 ACCEPTANCE CRITERIA

The acceptance criteria for the Laserfiche Integration will be represented in the approved test plan. Payment will be as follows: 80% of the fee when delivered and 20% of the fee upon acceptance.

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