

ConstructConnect CRM Integration XML Format Version 1.2.1 Administrator's Reference

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ConstructConnect, 30 Technology Parkway South, Suite 100, Norcross, GA 30092

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Overview

Introduction

The **Insight** CRM integration feature provides you with customized project lead data that you can import into your third-party CRM system.

Once you set up your customized **Insight** search, the results are exported in Extensible Markup Language (XML) format to download each day from the secure ConstructConnect - hosted site, accessible using File Transfer Format (FTP). Your search results are updated daily with new projects and continuous updates to projects you are tracking for development.

About This Document

This document contains a description of the CRM Integration XML format file, including the data structure, field descriptions and values, database sizing recommendations, and the procedure for downloading the file.

Who Should Use This Document

This document is intended for system administrators and other technical personnel for use as a reference for customizing the CRM Integration XML file. Contact ConstructConnect if you have any questions about the content or use of this document.

Accessing the File

Your customized CRM Integration XML data export file is available for download each day by 8:00 AM Eastern Standard Time (EST), using ConstructConnect's FTP. The file will be compressed into a .zip format and will use the following naming convention:

DL_<companyname>_XML_YYYYMMDD

DL_<companyname>_DataLinkAux_YYYYMMDD

Example: The file for April 5, 2017 is named ***DL_BestCompany_20160405***

The file is available on the secure ConstructConnect-hosted FTP location at ftp.cmdintegration.com. To access the file for download, you must have the following information.

- Your user name, password and file name
- A connection to the Internet
- FTP software on your computer

Your FTP site logon name, password, and file name are all supplied by your ConstructConnect Account Manager. You can access your file for two weeks after the posting date on the secure ConstructConnect-hosted FTP location, after which time the file is no longer accessible.

Understanding the Export File

Introduction

The CRM export file contains all of the information for each project and company included in your export. This section provides information about the contents of the file, URL structure, links to the schema and schema examples, and a brief description of setting up a search for CRM export.

NASD Values

ConstructConnect is now mapping both U.S. and Canadian construction data to a single common standard, the North American Standard Data (NASD) format. To see a side-by-side comparison of how the data types are now mapped using NASD, [click to download the NASD data matrix in Excel format](#).

Understanding URL components

The URLs for company and project details are formatted specifically, depending on the data represented.

The following URL's represent company and project details, respectively:

- <http://insight.cmdgroup.com/.../CompanyDetails/399270/2>
- <http://insight.cmdgroup.com/.../ProjectDetails/9209403/2>

In the above examples,

- The numbers in **red** represent the Insight ID for the project or company.
- The numbers in **green** represent the country, **1** for U.S. and **2** for Canada.

CRM version 1.2.1 export schema

The CRM 1.2.1 export schema closely follows the Datalink export schema. You can view the CRM 1.2.1 export schema in the following location:

[Appendix C – CRM Integration XML format version 1.2.1 export schema](#)

CRM version 1.2.1 example files

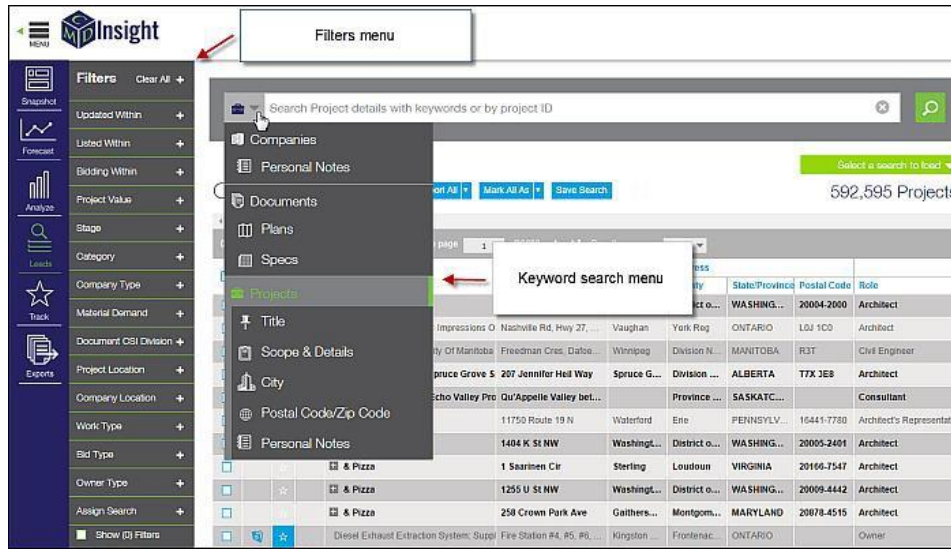
You can view an example of both the export and auxiliary export files in the following location:

[Appendix B – CRM Integration XML format version 1.2.1 example files](#)

Using Search Filters to Set Up CRM Exports

You can use any of the filters located along the left side of the **Leads** window to set up the criteria for your CRM Integration searches. Additionally, keywords entered in the search bar tile along the top of the window are also valid for CRM Integration searches.

Search filters and options are found in the following locations:



When Files are Exported

Initially, projects selected for CRM export are included in the next scheduled feed, typically overnight from the day the project is selected. Beyond this initial export, projects are only included in your export when there is a significant update to the project. For information on the frequency of CRM exports, contact your system administrator.

Common Terms Used in This Document

The following table contains common terms and definitions used in this document.

Term	Definition
Extensible Markup Language (XML)	XML is a data format for structured document interchange on the Web, allowing users to design a markup language which defines how to describe information in a certain class of documents. XML authors can define customized markup language for several classes of documents and share information between applications. The XML tagging structure allows for simplified manipulation of delivered data and allows the data structure to change without significantly impacting the target application.
File Transfer Protocol (FTP)	File Transfer Protocol (FTP) is a service that supports file transfer between local and remote computers, including the Internet. FTP supports several commands that allow bidirectional transfer of binary and ASCII files between computers. The FTP client is installed with the TCP/IP connectivity utilities.

Xpath and Nesting-level Notation Definitions

The following table contains a description and definition of the X-path and nesting-level notation used in the file.

Xpath and nesting-level notation	
Description	Definition
Attribute	The attribute name. Attributes are used to provide additional information for an XML element.
Type (size)	<p>The data type defines the data type for the field. The length of the field is defined by the data type.</p> <p>Example data types defined in the CRM schema and sample data file include:</p> <ul style="list-style-type: none"> • xs:long • xs:string <p>DB defines the length of the xs: string. This may be used for sizing a DB for CRM XML files.</p> <ul style="list-style-type: none"> • xs:date • xs:boolean <p>These data types are defined under the following URL: http://schemas.microsoft.com/BizTalk/2003.</p> <p>Other data types include:</p> <ul style="list-style-type: none"> • dls.Role • dls.SubCategory • dls.Summary • dls.AddressType • dls.PhoneType

Xpath and nesting-level notation	
	These data types are defined in the CRM export schema. See Appendix A for more information.
Description	The description of the attribute.
Valid Example/Values	The valid example contains the values for the attribute. Specific values are also included.
Child element	Cross-reference to the child element.

CRM integration XML format version 1.2.1 field descriptions

Introduction

This section contains a description of the structure used in the ConstructConnect CRM Integration XML Format version 1.2.1 export file.

/Projects

/Projects/ Definition: Defines the export information.			
Attribute	Data Type	Description	Valid Examples/Values
Version	xs:decimal	Version number of CRM export	Version 1.2.1
Copyright	xs:string	Copyright statement	Copyright © ConstructConnect. All rights reserved
ExportDate	xs:date	Export date and time	XML format = YYYY-MM-DD XML example = 2014-09-16
Child Elements	Data Type	Description	Valid Examples/Values
Project	—	See the Projects/Project table for more information.	

Projects/Project

/Projects/Project Definition: Defines the project information.			
Attribute	Data Type	Description	Valid Examples/Values
Child Elements	Data Type	Description	Valid Examples/Values
Valuation		See /Valuation for more information.	
Parameters		See /Parameters for more information.	
SubCategories		See /SubCategories for more information.	
StageComments		See /StageComments for more information.	
Addresses		See /Addresses/Address for more information.	
Bids		See /Bids/Bid for more information.	
Companies		See Companies/Company for more information.	
Users		See /Users/User for more information.	
UpdateSummarizations		See /UpdateSummarizations/UpdateSummary for more information.	
PlansSpec		See /PlanSpec/PlanRoom for more information.	
Details		See /Details for more information.	
Materials		See /Materials/Material for more information.	
ProjectID		See /ProjectID for more information.	

/Projects/Project			
Definition: Defines the project information.			
Attribute	Data Type	Description	Valid Examples/Values
DataSourceID		See /DataSourceID for more information.	
Title		See /Title for more information.	
Stage		See /Stage for more information.	
URL		See /URL for more information.	
UpdateDate		See /UpdateDate for more information.	
ProjectParentID		See /ProjectParentID for more information.	
IsUnverified		See /IsUnverified for more information.	

/Valuation

/Projects/Project/Valuation											
Definition: Defines the valuation for the project.											
Attribute	Data Type	Description	Valid Examples/Values								
ValueType	dls.ValueType	The value of the project.	<table border="1"> <thead> <tr> <th>Value</th> <th>Definition</th> </tr> </thead> <tbody> <tr> <td>Confirmed</td> <td>The project value is confirmed with a source by the RCD Research Team.</td> </tr> <tr> <td>Estimate</td> <td>The project value is estimated by the RCD Research Team.</td> </tr> <tr> <td>Unconfirmed</td> <td>The project value is a best guess by the RCD Research Team.</td> </tr> </tbody> </table>	Value	Definition	Confirmed	The project value is confirmed with a source by the RCD Research Team.	Estimate	The project value is estimated by the RCD Research Team.	Unconfirmed	The project value is a best guess by the RCD Research Team.
Value	Definition										
Confirmed	The project value is confirmed with a source by the RCD Research Team.										
Estimate	The project value is estimated by the RCD Research Team.										
Unconfirmed	The project value is a best guess by the RCD Research Team.										
Currency	XML = dls.Currency DB = VARCHAR(15)	Currency type	Values: <ul style="list-style-type: none"> • U.S = US • Canada = CAD 								
Value	xs:string	Value of the project	8800000								
Child Elements	Data Type	Description	Valid Examples/Values								

/Parameters

/Projects/Project/Parameters/Parameter			
Definition: Defines the parameters for the project.			
Attribute	Data Type	Description	Valid Examples/Values
Ownership	XML = dls.Ownership DB = VARCHAR(180)	Funding type/ownership of the project	Private Provincial Federal Defense
WorkType	XML = dls.WorkType DB = VARCHAR(180)	Development type of the project	New Addition Alterations Engineering
CommenceDate	xs:date	Confirmed or estimated construction start date for the project	XML format = YYYY-MM-DD XML example = 2007-09-16
CompletionDate	xs:date	Estimated end date for the project	XML format = YYYY-MM-DD XML example = 2007-09-16
RecordDate	xs:date	Date the project record was first registered in the system	XML format = YYYY-MM-DD XML example = 2007-09-16
FloorsAboveGround	xs:integer	Number of floors above ground	Rule: Represents number of floors above ground that may be new or alterations. If an alteration, only the numbers of floors affected by the alteration are listed. For multiple buildings, the tallest structure's numbers of floors are represented. When a project has a development/worktype of addition/alterations, only the addition floors are shown. Any alteration floors, if known, are listed in the project text.
FloorsBelowGround	xs:integer	Number of floors below ground	Rule: Represents number of floors below ground that may be new or alterations. If alterations, only the number of floors affected by the alteration are listed, not the total number of floors below ground. If project has a development/worktype of addition/alterations, only the addition floors below ground are listed. The alteration floors below ground, if known, are listed in the project text.
FloorArea	xs:unsignedLong	Square footage for the project	Rule: If project has a development/worktype of addition/alterations, only the addition square footage is listed. The alteration square

FloorArea	xs:unsignedLong	Square footage for the project	Rule: If project has a development/worktype of addition/alterations, only the addition square footage is listed. The alteration square footage, if known and relevant, is listed in the project text.
SiteArea	xs:unsignedLong	Site area (in acres) involved in the project	Captured in whole numbers only.
ParkingSpaces	xs:long	Number of parking places involved in the project	Rule: If project has a development/worktype of addition/alterations, only the addition parking spaces are listed. The alteration parking spaces, if known, are listed in the project text.
Structures	xs:long	Number of structures involved in the project	Rule: If project has a development/worktype of addition/alterations, only the addition structures are listed. The alteration structures, if known, are listed in the project text.
Units	xs:long	Number of units involved in the project	Rule: If project has a development/worktype of addition/alterations, only the addition units are listed. The alteration units, if known, are listed in the project text. Note: Projects that have units are prisons, hospitals, and condominiums.
BidDate	xs:date	The date the project goes to bid.	2014-05-29
BidTime	XML = dls.BidTime DB = VARCHAR(120)	The time that the project goes to bid.	10:00 AM
ContractType	XML- dls.ContractType DB = VARCHAR(180)	Contract type of the project	One of the following: <ul style="list-style-type: none"> • General contractor • Construction management • Project management • Design / Build • Trade contract
FloorAreaUnitofMeasure	xs:long MaxLengthValue=255	Denotes square feet as the unit of measurement for the project floor area.	Square Feet
SiteAreaUnitofMeasure	xs:long	Denotes acres as the unit of measurement for project site area.	
GreenBuildingCertification	xs:long	Denotes the Green Building Certification status of the project.	Values: <ul style="list-style-type: none"> • Unknown • Yes • No

LEEDCertificationIntent	xs:long	Denotes the LEED certification status of the project.	Values: <ul style="list-style-type: none">• Certified• Silver• Gold• Platinum• Unknown
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/SubCategories

/Projects/Project/SubCategories			
Definition: Defines the subcategory for the project.			
Attribute	Data Type	Description	Valid Examples/Values
Child Elements	Data Type	Description	Valid Examples/Values
PrimaryCategoryName	xs:string MaxOccurs="1"	Primary end use category for the project.	
SubCategory	XML = dls.SubCategory DB = VARCHAR(180)	Subcategory for the project. Limits: <ul style="list-style-type: none"> • U.S. – 3 • Canada – unlimited 	See the Category parent/child values in the following section for a full list of category values

Category parent/child values

The following table contains the *Category* parent and child values.

Category	
Parent	Child
COMMERCIAL	Broadcast Studios
	Laboratories
	Offices / Warehouses
	Offices
	Parking Garages
	Rental Warehouses
	Transportation Terminals
COMMUNITY	Auditoriums
	Clubs, Community Centers
	Libraries
	Museums
	Religious Auditoriums
	Religious Classrooms
	Sports Arenas / Convention Centers
EDUCATIONAL	Athletic Bldgs.
	Cafeterias
	Dormitories
	Schools
INDUSTRIAL	Manufacturing
	Miscellaneous Industrial
	Processing Plants
	Warehouses
MEDICAL	Hospitals, Clinics
	Medical Offices

	Nursing Homes
MILITARY	Military – Misc.
	Military Housing
	Military Offices
RESIDENTIAL	Apartments
	Condominiums
	Single Family
	Townhomes

	Automotive
	Bank
	Entertainment
	Food Stores
	Hotels
	Restaurants
	Retail Stores
	Shopping Centers
CIVIL	Airport
	Athletic Fields and Courts
	Bridges and Culverts
	Dams and Canals
	Demolition
	Electrical Work
	Flood Control
	Marine Work
	Miscellaneous
	Parks and Landscaping
	Power Plants and Lines
	Railroad and Subway
	Roads
	Sewers and Water Mains
	Swimming Pools
	Tanks
	Tunnels
	Water and Sewage Treatment Plants

/StageComments

/Projects/Project/StageComments			
Definition: Defines the stage comment for the project.			
Attribute	Data Type	Description	Valid Examples/Values
Child Elements	Data Type	Description	Valid Examples/Values
StageComment	XML = dls.StageComment DB = VARCHAR(255)	Stage Comment: Activities of the bid stage projects.	Example for Stage Comment: Add bidders Closing date extended from 2014-09-16

Stage Parent/Child Values

The following table contains a list and description of the *Stage* parent/child values.

Project/Projects.../Stage	
Parent	Stage Child
PLANNING	Pre-design
	Schematic Design
	Design Development
	Construction Documents
BIDDING	SUBBIDS ASAP
	Biddate Set
POST BID	Bids Closed
	Construction Underway
	General Contractor Award
	Low Bids Announced
	Post Bid
	Subcontractor Awards
	Unit Prices Announced
	Project Cancelled
MISCELLANEOUS	Disqualified Lead
	Bids Closed
	Cancelled
	Duplicate Project

/Addresses/Address

/Projects/Project/Addresses/Address			
Definition: Defines the address for the project.			
Attribute	Data Type	Description	Valid Examples/Values
ProjectAddressType	XML = dls.AddressType DB = VARCHAR(180)	Address type for the project. There is only one value for this type.	The address for the project, formerly <i>Project</i> .
Child Elements	Data Type	Description	Valid Examples/Values
AddressLine1	XML = dls.AddressLine DB = VARCHAR(128)	Project address	2468 Montview Drive
AddressLine2	XML = dls.AddressLine DB = VARCHAR(128)	Second line for the address	Not applicable
City	XML = dls.City DB = VARCHAR(50)	City or municipal where the project is located	Talmadge
StateProvince	XML = dls.State DB = VARCHAR(50)	Abbreviation representing the state or province of the project	GA
ZipPostalCode	XML = dls.Zip DB = VARCHAR(20)	Postal or zip code for project	30033
County	XML = dls.County DB = VARCHAR(60)	Name representing the county for the project	Fulton
CountryRegion	XML = dls.Country DB = VARCHAR(120)	Name representing the country or region for the project	US Canada

/Bids/Bid

/Projects/Project/Bids/Bid			
Definition: Defines the bid contract conditions for a project. For a given project, it is possible to have multiple bid contract conditions.			
Attribute	Data Type	Description	Valid Examples/Values
BidDate	xs:date	Bid date for a contract	XML format = YYYY-MM-DD XML example = 2007-09-16
Conditions	XML = dls.Conditions (text)	This is the foremost contract condition that must be met by bidders so that they may bid on a project.	Not applicable
Bonding	XML = dls.Bonding DB = VARCHAR(180)	Bonded and insured for the project. It is the general contractor insurance certificate. Bonding covers coverage for financial risk or loss on a project. Bonding refers to a type of surety guarantee that a specific project will be financially covered if performance is not complete or satisfactory.	Not applicable
BidDate	xs:date	Bid date for a contract	XML format = YYYY-MM-DD XML example = 2007-09-16
Conditions	XML = dls.Conditions (text)	This is the foremost contract condition that must be met by bidders so that they may bid on a project.	Not applicable
Bonding	XML = dls.Bonding DB = VARCHAR(180)	Bonded and insured for the project. It is the general contractor insurance certificate. Bonding covers coverage for financial risk or loss on a project. Bonding refers to a type of surety guarantee that a specific project will be financially covered if performance is not complete or satisfactory.	Not applicable
BidTo	XML = dls.Role DB = VARCHAR(180)	Project role that is accepting bids on the project contract	Owner See the line for dls:Role line in the export schema for a complete list of the stage examples.
BidTime	XML = dls.BidTime DB = VARCHAR(120)	Time bids are due for a project contract	XML example = 12:00
BidDateAsap	xs:boolean	Not applicable	Not applicable

BidDateHold	xs:boolean	When the flag is set, the project has been placed on an indefinite hold.	If the flag is: TRUE = BidDateHold is set. FALSE = BidDateHold is not set.
Classification	XML = dls.Role DB = VARCHAR(180)	How the company is classified.	Architect See dls:Role line in the export schema for a complete list of the role examples.
Invitation	XML = dls.InvitationNumber DB = VARCHAR(50)	Unique invitation number assigned to the project for bidding purposes.	W912HY-04-B-0026 3819
BidType	XML = dls.BidType DB = VARCHAR(180)	Type of contracting method being used in the construction of the building.	Open Bidding Invited Bidding Prequalified Bidders Negotiated
Child Elements	Data Type	Description	Valid Examples/Values

Companies/Company

Notes:

- To determine the specific company role for a project, the value in the **Role** field defines the company role for a project participant. If the **Role** field is populated, the company is playing a role for the project. Some of the values for the company role include General Contractor, Owner, and Architect. If the value in the **Role** field is null, the company is not playing a role on the project.
- To derive the Bidders List from a CRM Integration export file, the **BiddingRole** field determines the Bidder's List for a project. All companies with a non-null value in the **BiddingRole** field are a bidder for the project. If the value in the **BiddingRole** field is null, there are no bidders for the project.

/Projects/Project/Companies/Company			
Definition: Defines the company information for a project. Companies listed here are both project participants and bidders.			
Attribute	Data Type	Description	Valid Examples/Values
Role	XML = dls.Role DB = VARCHAR(180)	Role the company is playing on the project Note: The Role, TenderRole, and BiddingRole are all mutually exclusive. You can only select one of these values.	General Contractor See the Classification parent/child values in the following section for more information about Role values. See the Note at the start of this section for more information.
BiddingRole	XML = dls.Role DB = VARCHAR(180)	Role for which the company is bidding on the project The code represents a generic or detailed account of what is involved in the contract. Note: The Role and BiddingRole are mutually exclusive. You can only have one or the other.	
Name	XML = dls.Name DB = VARCHAR(255)	Name of the company	WB Johnson Construction
URL	XML = dls.URL DB = VARCHAR(255)	URL to the Company Detail page for this company	
LastUpdate	xs:date	Date the company was last updated. The LastUpdate field is the last date that the project was edited. It may not be the last significant update date.	XML format = YYYY-MM-DD XML example = 2006-03-29
CompanyID	xs:long	Unique ConstructConnect value.	510975
Child Elements	Data Type	Description	Valid Examples/Values
Contacts	—	See /Companies/Company/Contacts/Contact for more information.	
Addresses	—	See /Companies/Company/Addresses/Address for more information.	
Phones	—	See /Companies/Company/Phones/Phone for more information.	
Bids		See /Companies/Company/Bids/Bid for more information.	

/Projects/Project/Companies/Company			
Definition: Defines the company information for a project. Companies listed here are both project participants and bidders.			
Attribute	Data Type	Description	Valid Examples/Values
Classification Types	—	See /Companies/Company/ClassificationType for more information.	
CompanySummarizations		See /Companies/Company/CompanySummarizations for more information.	

Classification parent/child values

The *Classification* of a company is the function that the company generally performs, and is not necessarily the *Role* that the company plays in the project. The following table contains the parent/child values for *Classification*.

Classification	Child
Parent	Child
ARCHITECT	Architect
	Architect's Representative
	Designer
	Landscape Architect
	Golf Course Architect
	Water Feature Designer
GENERAL CONTRACTOR	General Contractor
	Construction Manager
	Negotiating General Contractor
	Design Build Contractor
BUILDING OWNER: BUILDING USER	Developer
	Owner
	Owner's Rep
	Tenant
ENGINEERS	Acoustical Engineer
	Civil Engineer
	Consultant
	Electrical Engineer
	Engineer
	Food Service Designer
	Geotechnical Consultant
	HVAC Engineer
	Interior Designer
	Landscape Designer

Classification	
Parent	Child
	Mechanical and Electrical Engineer
	Plans Representative
	Plumbing Engineer
	Specification Consultant
	Structural Engineer
EQUIPMENT SUPPLIERS	Construction Equipment
	Fuels
NUMERIC BID PACKAGES	Bid Package 1 ... to.... Bid Package 99
ALPHA BID PACKAGES	Bid Package A ... to.... Bid Package Z
SUBCONTRACTORS – DIVISION 1	Fencing
	Building Maintenance, Cleanup
	Equip. Rentals, Scaffolding
	Financial Services
	Misc. General Requirements
SUBCONTRACTORS – DIVISION 2	Landscaping
	Foundation Contractor
	Paving
	Demolition
	Asbestos Removal
	Site Work
SUBCONTRACTORS – DIVISION 3	Concrete
	Precast Concrete
	Concrete Forms
	Reinforcing Steel
	Concrete
SUBCONTRACTORS – DIVISION 4	Masonry
	Masonry Restoration
SUBCONTRACTORS – DIVISION 5	Structural Steel
SUBCONTRACTORS – DIVISION 6	Carpentry
SUBCONTRACTORS – DIVISION 7	Waterproofing
	Insulation
	Roofing

Classification	
Parent	Child
SUBCONTRACTORS – DIVISION 8	Doors
	Windows
	Hardware
	Glass
SUBCONTRACTORS – DIVISION 9	Interior Finishes
	Plaster and Stucco
	Drywall
	Tile
	Acoustical Ceilings
	Flooring
	Painting and Wall Coverings
SUBCONTRACTORS – DIVISION 10	Bathroom Partitions and Accessories
	Other Equipment
	Moveable Partitions
	Signage
	Other Equipment
	Window Coverings
SUBCONTRACTORS – DIVISION 11	Bank Equipment
	Laboratory Equipment
	Sewage Treatment Equipment
	Kitchen Equipment
	Medical Equipment
	Athletic Equipment
SUBCONTRACTORS – DIVISION 12	Carpentry
	Window Coverings
	Furniture
	Seating
SUBCONTRACTORS – DIVISION 13	Insulated Cold Storage
	Swimming Pools
	Storage Tanks
SUBCONTRACTORS – DIVISION 14	Elevators and Escalators
	Conveyors

Classification	
Parent	Child
SUBCONTRACTORS – DIVISION 15	Mechanical Contractor
	Plumbing Contractor
	HVAC Contractor
	Refrigeration Contractor
	Temperature Controls
	Fire Sprinklers
	Thermal Insulation
	Sheet Metal
SUBCONTRACTORS – DIVISION 16	Electrical Contractor
	Lighting
	Alarms and Communication
	Electrical Contractor
	Ventilation Contractor
	Heating Contractor
	Fire Protection
MISC NON-ROLE CODES	Contract 1...to... Contract 9
	Contract A... to ... Contract E
	Bidders

/Companies/Company/Contacts/Contact

Note: The address and phone number data for a contact can be derived from the *company* section.

/Projects/Project/Companies/Company/Contacts/Contact			
Definition: Defines the contact information for the company.			
Attribute	Data Type	Description	Valid Examples/Values
URL	XML = dls:URL DB = VARCHAR(255)	URL to the Contact Detail page for this contact	
Name	XML = dls.ContactName DB = VARCHAR(100)	Name of the contact associated with the company for this project.	John Smith
ContactID	xs:long	Unique system assigned Contact ID	386560

/Companies/Company/Addresses/Address

/Projects/Project/Companies/Company/Addresses/Address			
Definition: Defines the company address.			
Attribute	Data Type	Description	Valid Examples/Values
Address Type	XML = dls.AddressType DB = VARCHAR(180)	Address type for the company	Street Mailing Default = Street
Child Elements	Data Type	Description	Valid Examples/Values
AddressLine1	XML = dls.AddressLine DB = VARCHAR(128)	Company address	283 Main Street
AddressLine2	XML = dls.AddressLine DB = VARCHAR(128)	Second line for the address	Not applicable
City	XML = dls.City DB = VARCHAR(50)	City or municipal for the company	Atlanta
StateProvince	XML = dls.State DB = VARCHAR(50)	Abbreviation representing the state or province for the company	GA
ZipPostalCode	XML = dls.Zip DB = VARCHAR(20)	Postal or zip code for the company	30309
County	XML = dls.County DB = VARCHAR(60)	Name representing the county for the company	Fulton

/Projects/Project/Companies/Company/Addresses/Address
Definition: Defines the company address.

CountryRegion	XML = dls:Country DB = VARCHAR(120)	Name representing the country or region for the company	US
---------------	---	---	----

/Companies/Company/Phones/Phone
/Projects/Project/Companies/Company/Phones/Phone
Definition: Defines the phone information for companies associated with a project.

Attribute	Data Type	Description	Valid Examples/Values
PhoneType	XML = dls.PhoneType DB = VARCHAR(180)	Phone type for the company	Example for Phone Type: <ul style="list-style-type: none"> • Company Phone Number • Contact Phone Number • Fax Phone Number • Cell Phone Number • Home Phone Number • Other Phone Number
Child Elements	Data Type	Description	Valid Examples/Values
PhoneNumber	XML = dls.PhoneNumber DB = VARCHAR(100)	Phone number of the company	770-424-1234

/Companies/Company/Bids/Bid

Note: Bidding information must be cross-referenced with the BiddingRole field to determine the BidValue, BidRank, and BidWithdrawDate for each bidding company.

/Projects/Project/Companies/Company/Bids/Bid
Definition: Defines the bid information for all bidding companies.

Attribute	Data Type	Description	Valid Examples/Values
BidValue	XML = dls.Currency DB = VARCHAR(15)	Amount of the bid submitted by the bidder	3344550
BidRank	xs:unsignedInt	Reflects the bid value order from lowest to highest where the lowest = 1.	1, 2, 3
BidWithdrawDate	xs:date	Not applicable	Not applicable
Child Elements	Data Type	Description	Valid Examples/Values

/Companies/Company/ClassificationType

/Projects/Project/Companies/Company/ClassificationsType			
Definition: Defines the classification type of the Company.			
Attribute	Data Type	Description	Valid Examples/Values
Rank	xs: unsignedInt	Ranking of the subcategory classification representing the proportion of the end use of project.	1 2
Type	XML = dls.ClassificationType DB = VARCHAR(180)	Business type of the business, including the classification of the services delivered in the market.	Accommodation/Hospitality/ Utilities Municipal Govt. Services See dls.ClassificationType line in the export schema for a complete list of the stage examples.
Child Elements	Data Type	Description	Valid Examples/Values

/Companies/Company/CompanySummarizations

/Companies/Company/CompanySummarizatons			
Attribute	Data Type	Description	Valid Examples/Values
CompanySummaryDate	xs:date	The date the company merged into the current company.	2009-02-26
Summary	XML = dls.Summary DB=VARCHAR(255)	Lists companies that have merged into the current company.	Company merged: 999999 BEST ARCHITECTS
Child Elements	Data Type	Description	Valid Examples/Values

/Users/User

/Projects/Project/Users/User			
Definition: Defines the			
Attribute	Data Type	Description	Valid Examples/Values
UserName	xs:string	The ID of the user in Leads.	
ProjectFlaggedforExport	XML = dls.Summary DB = VARCHAR(255)	Identifies what has been updated since the last export.	An example for the summary is New Project was Found.
Child Elements	Data Type	Description	Valid Examples/Values

/UpdateSummarizations/UpdateSummary

/Projects/Project/UpdateSummarizations/UpdateSummary			
Definition: Defines the update summary information or project history for a project.			
Attribute	Data Type	Description	Valid Examples/Values
UpdateSummaryDate	xs:date	Identifies the update summary date for a project.	XML format = YYYY-MM-DD XML example = 2006-03-29
Summary	XML = dls.Summary DB = VARCHAR(255)	Identifies what has been updated since the last export.	An example for the summary is New Project was Found.
Child Elements	Data Type	Description	Valid Examples/Values

/PlanSpec/PlanRoom

/Projects /Project/PlanSpec/PlanRoom			
Definition: Defines the plans and specifications information for a project.			
Attribute	Data Type	Description	Valid Examples/Values
Deposit	xs:string	Deposit and refund information for the project	Not applicable
URL	XML = dls.URL DB = VARCHAR(255)	URL to the Plans and Specs page for this project	URL format = http://www.reedconnect.com/default.aspx?link=<encrypted string> URL example = http://www.reedconnect.com/default.aspx?link=NSwxNDAwLDEwMDAyNDI3Nzc%3d
From	XML = dls.Role DB = VARCHAR(180)	The project role that is distributing plans on the project contract	Architect Owner See dls:Role line in the export schema for a complete list of the stage examples.
Child Elements	Data Type	Description	Valid Examples/Values
Bin	xls:string		
Name	XML=dls.PlanRoom	The name of the plan/spec.	
URL	XML = dls.URL DB = VARCHAR(255)	URL to the Plans and Specs page for this project	URL format = http://www.reedconnect.com/default.aspx?link=<encrypted string> URL example = http://www.reedconnect.com/default.aspx?link=NSwxNDAwLDEwMDAyNDI3Nzc%3d

/Details

/Projects/Project/Details/Detail			
Definition: Defines the project details information for a project.			
Attribute	Data Type	Description	Valid Examples/Values
DetailText	xs:string (text) It is recommended to limit the string to 10,000 characters.	Information for the corresponding detail type code.	Office / Warehouse, Transportation Terminal, or Phase 1 of Transit Maintenance and Bus Storage Facility
DetailType	XML = dls.DetailType DB = VARCHAR(180)	Code representing the detail information reported on a project	Project Status Notes
Child Elements	Data Type	Description	Valid Examples/Values

/Materials/Material

/Projects/Project/Materials/Material			
Definition: Defines the materials or Master Format CSI divisions for a project.			
Attribute	Data Type	Description	Valid Examples/Values
Description	XML = dls.Description DB = VARCHAR(180)	Information for the corresponding material code	Concrete
Code	xs:long	1995 master format code representing materials involved in the project.	311
Child Elements	Data Type	Description	Valid Examples/Values

/ProjectID

/Projects/Project/ProjectID			
Definition: Defines the unique identity of the project			
Attribute	Data Type	Description	Valid Examples/Values
ProjectID	xs:long	Unique system assigned project ID	1000015959
Child Elements	Data Type	Description	Valid Examples/Values

/DataSourceID

/Projects/Project/DataSourceID			
Definition: Defines the name of the project.			
Attribute	Data Type	Description	Valid Examples/Values
DataSourceID	XML = xs:string DB = VARCHAR(180)		Values: <ul style="list-style-type: none"> • U.S = US • Canada = CAD
Child Elements	Data Type	Description	Valid Examples/Values

/Title

/Projects/Project/Title			
Definition: Defines the name of the project.			
Attribute	Data Type	Description	Valid Examples/Values
Title	XML = dls.Title DB = VARCHAR(180)	Title and name of the project record	WATER CONTROL PLANT ALTS: Arlington Water Pollution Control Plant
Child Elements	Data Type	Description	Valid Examples/Values

/Stage

/Projects/Project/Stage			
Definition: Defines the stage of the project.			
Attribute	Data Type	Description	Valid Examples/Values
Stage	XML = dls.Stage DB = VARCHAR(180)	Stages of planning, bidding, or postbid that the project is in currently	Planning Proposed Pending Role Proposals Due Architect Selection to Begin Master Planning Conceptual Drawings See
Child Elements	Data Type	Description	Valid Examples/Values

/URL

/Projects/Project/Stage			
Definition: Defines the URL for the project listing in Insight.			
Attribute	Data Type	Description	Valid Examples/Values
URL	XML = dls.URL	URL to the Project Detail page for	URL format =
	DB = VARCHAR(255)	this project	http://www.reedconnect.com/default.aspx?link=<encrypted string> URL example = http://www.reedconnect.com/default.aspx?link=NSwxNDAwLDEwMDAyNDI3Nzc%3d
Child Elements	Data Type	Description	Valid Examples/Values

/UpdateDate

/Projects/Project/UpdateDate Definition: Defines the date the project listing was last updated.			
Attribute	Data Type	Description	Valid Examples/Values
UpdateDate	xs:date	Date a particular project was last updated	XML format = YYYY-MM-DD XML example = 2007-09-16
Child Elements	Data Type	Description	Valid Examples/Values

/ProjectParentID

/Projects/Project/UpdateDate Definition: Defines the date the project listing was last updated.			
Attribute	Data Type	Description	Valid Examples/Values
ProjectParentID	xs:long	ID of the project parent that is related to this project	9058762
Child Elements	Data Type	Description	Valid Examples/Values

/IsUnverified

/Projects/Project/IsUnverified Definition: Defines the verification status of the project.			
Attribute	Data Type	Description	Valid Examples/Values
IsUnverified	Xs:Boolean	Denotes project data is not verified.	TRUE = project is not verified FALSE = project is verified.
Child Elements	Data Type	Description	Valid Examples/Values

Appendix A – CRM Integration XML format version 1.2.1 auxiliary file

Introduction

This section contains a description of the auxiliary file used in conjunction with the CRM Integration XML format version 1.2.1 file.

/User

/User Definition: Defines user information.			
	Data Type	Description	Valid Examples/Values
Child Elements	Data Type	Description	Valid Examples/Values
UserID	XML = dls.Summary DB = VARCHAR(255)	The RCD ID of the user expressed as an email address.	user.name@company.com
LoginID			
ReedUser			
Queries			

/QueryID

/QueryID Definition: Defines information for the project query.			
Attribute	Data Type	Description	Valid Examples/Values
Child Elements	Data Type	Description	Valid Examples/Values
QueryID			
SearchName		The name of the search.	Projects 30033
SearchCriteria		The parameters of the search.	
Projects			

/Users

/Users Definition: Defines the			
Attribute	Data Type	Description	Valid Examples/Values

Child Elements	Data Type	Description	Valid Examples/Values
User			

/UserID

/UserID Definition: Defines the			
Attribute	Data Type	Description	Valid Examples/Values
	xs:string	The RCD ID of the user.	
Child Elements	Data Type	Description	Valid Examples/Values

/LoginID

/LoginID Definition: Defines the			
Attribute	Data Type	Description	Valid Examples/Values
	xs:string		
Child Elements	Data Type	Description	Valid Examples/Values

/Project

/Project Definition: Defines the			
Attribute	Data Type	Description	Valid Examples/Values
Child Elements	Data Type	Description	Valid Examples/Values
ProjectID		The ID of the project.	1219583
ProjectName		The name of the project.	Walmart

/Queries

/Queries Definition: Defines			
Attribute	Data Type	Description	Valid Examples/Values
Child Elements	Data Type	Description	Valid Examples/Values
Query			

/QueryID

/QueryID Definition: Defines			
Attribute	Data Type	Description	Valid Examples/Values
	xs:interger		
Child Elements	Data Type	Description	Valid Examples/Values

/Projects

/Projects Definition: Defines			
Attribute	Data Type	Description	Valid Examples/Values
Child Elements	Data Type	Description	Valid Examples/Values
Project			

/ReedUser

/Projects Definition: Defines			
Attribute	Data Type	Description	Valid Examples/Values
Child Elements	Data Type	Description	Valid Examples/Values

/ProjectID

/ProjectID Definition: Defines			
Attribute	Data Type	Description	Valid Examples/Values
Child Elements	Data Type	Description	Valid Examples/Values

/SearchName

/SearchName Definition: Defines			
Attribute	Data Type	Description	Valid Examples/Values
	xs:string	The name of the search.	
Child Elements	Data Type	Description	Valid Examples/Values

/ProjectName

/ProjectName Definition: Defines			
Attribute	Data Type	Description	Valid Examples/Values
	xs:string	The name of the project.	
Child Elements	Data Type	Description	Valid Examples/Values

/SearchCriteria

/SearchCriteria Definition: Defines			
Attribute	Data Type	Description	Valid Examples/Values
	xs:string	The criteria for the search.	
Child Elements	Data Type	Description	Valid Examples/Values

/CustomerQueryProjects

/CustomerQueryProjects Definition: Defines			
Attribute	Data Type	Description	Valid Examples/Values
Child Elements	Data Type	Description	Valid Examples/Values

Appendix B – CRM Integration XML format version 1.2.1 example files

Introduction

This section contains an example of the CRM Integration XML format 1.2.1 file populated with sample customer data. Included are examples of both the main file and the auxiliary file.

CRM Integration XML format version 1.2.1 example file

The following is an example of the CRM Integration XML format version 1.2.1 with sample data:

```
<?xml version="1.0" encoding="utf-8"?>
<Projects xmlns="http://insight.reedconstructiondata.com/schemas/schDataLinkConfV1.2.xsd" ExportDate="2014-08-15" Copyright="© 2014 Reed Construction Data Inc." Version="1.2"
xmlns:fo="http://www.w3.org/1999/XSL/Format">
<Project ProjectID="9206739" DataSourceID="CAN" Title="Secondary School Alts: École La Voie" Stage="Biddate Set"
URL="http://insight.reedconstructiondata.com/SingleSignOn/ProjectDetails/9206739/2/" UpdateDate="2014-08-15" IsUnverified="false">
  <Valuation Value="600000.00" Currency="CAD" ValueType="Staff estimate" />
  <Parameters>
    <Parameter Ownership="State/Provincial" WorkType="Alterations" CommenceDate="2014-08-01" CompletionDate="2014-11-01" RecordDate="2014-07-16"
BidTime="" ContractType="General contract" FloorAreaUnitofMeasure="Square Feet" SiteAreaUnitofMeasure="Acres" />
  </Parameters>
  <SubCategories>
    <SubCategory>Schools</SubCategory>
  </SubCategories>
  <StageComments>
    <StageComment>Tenders Due</StageComment>
  </StageComments>
  <Addresses>
    <Address ProjectAddressType="Project">
      <AddressLine1>6755 rue Lavoie</AddressLine1>
      <AddressLine2 />
      <City>Montréal</City>
      <StateProvince>QC</StateProvince>
      <ZipPostalCode>H3W 2K8</ZipPostalCode>
      <County>Communauté urbaine de Montréal, comté</County>
      <CountryRegion>Canada</CountryRegion>
    </Address>
  </Addresses>
  <Bids>
    <Bid BidDate="2014-08-15" BidTo="Owner" BidTime="14:00" BidDateAsap="false" BidDateHold="false" Classification="General Contractor" Invitation="25-2159P"
BidType="Open Bidding" />
  </Bids>
  <Companies>
    <Company Role="Owner" Name="Commission Scolaire Montréal" URL="http://insight.reedconstructiondata.com/SingleSignOn/CompanyDetails/315151/2"
LastUpdate="2014-08-14" CompanyID="315151">
    <Contacts>
```



```

    <Contact Name="Éric Tétraut" ContactID="05B6CFE2-A2E6-11E3-BA58-0FB1069E6E5C" />
    <Contact Name="David Genesse-Bolduc" ContactID="779C5044-BB5C-11E3-939A-7BE8069E6E5C" />
    <Contact Name="Nasreddine Slimi" ContactID="FFCF1DD2-A2D6-11E3-97DD-8284069E6E5C" />
    <Contact Name="Nasreddine Slimi" ContactID="7C4C49C6-B67C-11E3-BBBC-82D5069E6E5C" />
    <Contact Name="Radia Dehimi" ContactID="9FEDFD7C-A554-11E3-98E4-9693069E6E5C" />
    <Contact Name="François Poirier" ContactID="C2D67CA2-AE04-11E3-AD39-D1C4069E6E5C" />
    <Contact Name="Radia Dehimi" ContactID="62132572-B5C1-11E3-B2E7-DBE4069E6E5C" />
  </Contacts>
  <Addresses>
    <Address AddressType="Street">
      <AddressLine1>3737 rue Sherbrooke Est</AddressLine1>
      <City>Montréal</City>
      <StateProvince>QC</StateProvince>
      <ZipPostalCode>H1X 3B3</ZipPostalCode>
      <County>Communauté urbaine de Montréal, comté</County>
      <CountryRegion>Canada</CountryRegion>
    </Address>
  </Addresses>
  <Phones>
    <Phone PhoneType="Company Phone Number">
      <PhoneNumber>514 596-6418</PhoneNumber>
    </Phone>
    <Phone PhoneType="Fax Phone Number">
      <PhoneNumber>514 596-6667</PhoneNumber>
    </Phone>
  </Phones>
</Company>
</Companies>
<Users>
  <User UserName="johndatalink" ProjectFlaggedForExport="False"/>
</Users>
<PlanSpec />
<Details>
  <Detail DetailText="Educational bldgs; Repairs to the washrooms. " DetailType="Scope" />
  <Detail DetailText="Documents available through tel: 1-866-669-7326 or at 514 856-6600. TENDER DEPOSIT: 10% bid bond or cert cheque. MANDATORY SITE VISITE: August 5, at 10:00 Contractors are permitted to bid only if their principal place of business is in Québec or, when an intergovernmental agreement is applicable, in Québec or in a province or territory under that agreement, and if they possess a license required under the bldg law (LRQ c B-1.1). All tenders must conform to the Rules of construction contracts for school buildings, under the Public Instruction Act, (LRQ, c1-13-3, r0.01)." DetailType="Contract Conditions" />
</Details>
</Project>
<Project ProjectID="9206371" DataSourceID="CAN" Title="Medical Welfare Bldg Alts: CHSLD Chanoine Audet" Stage="Low Bids Announced"
URL="http://insight.reedconstructiondata.com/SingleSignOn/ProjectDetails/9206371/2/" UpdateDate="2014-08-15" IsUnverified="false">
  <Valuation Value="258800.00" Currency="CAD" ValueType="Confirmed" />
  <Parameters>
    <Parameter Ownership="State/Provincial" WorkType="Alterations" CommenceDate="2014-08-01" CompletionDate="2014-12-01" RecordDate="2014-07-10"
BidTime="" ContractType="General contract" FloorAreaUnitofMeasure="Square Feet" SiteAreaUnitofMeasure="Acres" />
  </Parameters>
</SubCategories>

```

```

    <SubCategory>Medical Offices</SubCategory>
  </SubCategories>
  <StageComments>
    <StageComment>Low Bid</StageComment>
  </StageComments>
  <Addresses>
    <Address ProjectAddressType="Project">
      <AddressLine1>2155 che du Sault</AddressLine1>
      <AddressLine2 />
      <City>St-Romuald</City>
      <StateProvince>QC</StateProvince>
      <ZipPostalCode>G6W 2K7</ZipPostalCode>
      <County>Les Chutes-de-la-Chaudière, comté</County>
      <CountryRegion>Canada</CountryRegion>
    </Address>
  </Addresses>
  <Bids>
    <Bid BidDate="2014-08-13" BidTo="Owner" BidTime="14:00" BidDateAsap="false" BidDateHold="false" Classification="General Contractor" Invitation="MI-317-111-1257" BidType="Open Bidding" />
  </Bids>
  <Companies>
    <Company Role="Owner" Name="Groupe Champlain Inc" URL="http://insight.reedconstructiondata.com/SingleSignOn/CompanyDetails/379941/2" LastUpdate="2014-07-11" CompanyID="379941">
      <Contacts>
        <Contact Name="Robert Mathieu" ContactID="EEB14C48-0850-11E4-9FAD-6D7C069E6E5C" />
      </Contacts>
      <Addresses>
        <Address AddressType="Street">
          <AddressLine1>7150 rue Marie-Victorin</AddressLine1>
          <City>Montréal</City>
          <StateProvince>QC</StateProvince>
          <ZipPostalCode>H1G 2J5</ZipPostalCode>
          <County>Communauté urbaine de Montréal, comté</County>
          <CountryRegion>Canada</CountryRegion>
        </Address>
      </Addresses>
      <Phones>
        <Phone PhoneType="Company Phone Number">
          <PhoneNumber>514 324-2044</PhoneNumber>
        </Phone>
        <Phone PhoneType="Fax Phone Number">
          <PhoneNumber>514 324-4096</PhoneNumber>
        </Phone>
      </Phones>
    </Company>
    <Company Role="Architect" Name="Martin Tanguay architecte" URL="http://insight.reedconstructiondata.com/SingleSignOn/CompanyDetails/836784/2" LastUpdate="2014-08-15" CompanyID="836784">
      <Contacts>

```

```

    <Contact Name="Martin Tanguay" ContactID="18C2F3CC-9B11-11E3-9F16-8090069E6E5C" />
  </Contacts>
  <Addresses>
    <Address AddressType="Street">
      <AddressLine1>5350 boul Henri-Bourassa</AddressLine1>
      <AddressLine2>ste 260</AddressLine2>
      <City>Québec</City>
      <StateProvince>QC</StateProvince>
      <ZipPostalCode>G1H 6Y8</ZipPostalCode>
      <County>Communauté urbaine de Québec, comté</County>
      <CountryRegion>Canada</CountryRegion>
    </Address>
  </Addresses>
  <Phones>
    <Phone PhoneType="Company Phone Number">
      <PhoneNumber>418 626-2106</PhoneNumber>
    </Phone>
    <Phone PhoneType="Fax Phone Number">
      <PhoneNumber>418 626-3502</PhoneNumber>
    </Phone>
  </Phones>
</Company>
<Company BiddingRole="General Contractor" Name="Const Marc Bolduc" URL="http://insight.reedconstructiondata.com/SingleSignOn/CompanyDetails/370748/2"
LastUpdate="2014-08-15" CompanyID="370748">
  <Addresses>
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      <AddressLine1>5151 rue Christophe-Colomb</AddressLine1>
      <City>Lévis</City>
      <StateProvince>QC</StateProvince>
      <ZipPostalCode>G6V 8Y7</ZipPostalCode>
      <County>Desjardins, comté</County>
      <CountryRegion>Canada</CountryRegion>
    </Address>
  </Addresses>
  <Phones>
    <Phone PhoneType="Company Phone Number">
      <PhoneNumber>418 838-3148</PhoneNumber>
    </Phone>
    <Phone PhoneType="Fax Phone Number">
      <PhoneNumber>418 838-3150</PhoneNumber>
    </Phone>
  </Phones>
  <Bids>
    <Bid BidValue="310900.00" BidRank="0" />
  </Bids>
</Company>
<Company BiddingRole="General Contractor" Name="Const Mafranc Inc" URL="http://insight.reedconstructiondata.com/SingleSignOn/CompanyDetails/302360/2"
LastUpdate="2014-08-15" CompanyID="302360">

```

```

    <Addresses>
      <Address AddressType="Street">
        <AddressLine1>520 rue Perreault</AddressLine1>
        <City>St-Romuald</City>
        <StateProvince>QC</StateProvince>
        <ZipPostalCode>G6W 7V6</ZipPostalCode>
        <County>Les Chutes-de-la-Chaudière, comté</County>
        <CountryRegion>Canada</CountryRegion>
      </Address>
    </Addresses>
    <Phones>
      <Phone PhoneType="Company Phone Number">
        <PhoneNumber>418 834-1151</PhoneNumber>
      </Phone>
      <Phone PhoneType="Fax Phone Number">
        <PhoneNumber>418 834-0051</PhoneNumber>
      </Phone>
    </Phones>
    <Bids>
      <Bid BidValue="258800.00" BidRank="0" />
    </Bids>
  </Company>
  <Company BiddingRole="General Contractor" Name="Chabot Construction inc"
  URL="http://insight.reedconstructiondata.com/SingleSignOn/CompanyDetails/839498/2" LastUpdate="2014-08-15" CompanyID="839498">
    <Addresses>
      <Address AddressType="Street">
        <AddressLine1>2077 route Kennedy</AddressLine1>
        <City>St-Isidore</City>
        <StateProvince>QC</StateProvince>
        <ZipPostalCode>G0S 2S0</ZipPostalCode>
        <County>Gloucester County</County>
        <CountryRegion>Canada</CountryRegion>
      </Address>
    </Addresses>
    <Phones>
      <Phone PhoneType="Company Phone Number">
        <PhoneNumber>418 895-0005</PhoneNumber>
      </Phone>
      <Phone PhoneType="Fax Phone Number">
        <PhoneNumber>418 895-6520</PhoneNumber>
      </Phone>
    </Phones>
    <Bids>
      <Bid BidValue="273200.00" BidRank="0" />
    </Bids>
  </Company>
</Companies>
<Users>

```

```

        <User UserName="johndatalink" ProjectFlaggedForExport="False"/>
    </Users>
    <PlanSpec />
    <Details>
        <Detail DetailText="Medical bldgs; Repairs to the basement and change the access hatch to the roof." DetailType="Scope" />
        <Detail DetailText="Documents available through tel: 1-866-669-7326 or at 514 856-6600. TENDER DEPOSIT: 10% bid bond or 5% cert cheque. MANDATORY SITE VISIT: July 17 at 10:00 Contractors can bid only if their principal place of business is in Québec or, when an intergovernmental agreement is applicable, in Québec or in a province or territory under that agreement, and if they possess a license required under the bldg law (RSQ c B-1.1)." DetailType="Contract Conditions" />
    </Details>
</Project>

```

```

<Project ProjectID="1002203889" DataSourceID="US" Title="Stephens Street Asphalt & Grading" Stage="Post Bid"
URL="http://insight.reedconstructiondata.com/SingleSignOn/ProjectDetails/1002203889/1/" UpdateDate="2015-02-03" IsUnverified="false">
    <Valuation Value="1400000.00" Currency="USD" ValueType="Historical Average" />
    <Parameters>
        <Parameter Ownership="City" WorkType="Alteration" RecordDate="2015-01-16" BidDate="2015-02-02" BidTime="02:00 PM" ContractType="Open Bidding"
FloorAreaUnitofMeasure="Square Feet" SiteAreaUnitofMeasure="Acres" GreenBuildingCertification="Unknown" LEEDCertificationIntent="Unknown" />
    </Parameters>
    <SubCategories>
        <PrimaryCategoryName>Roads</PrimaryCategoryName>
        <SubCategory>Flood Control</SubCategory>
        <SubCategory>Roads</SubCategory>
    </SubCategories>
    <StageComments>
        <StageComment>Postbids Pending</StageComment>
        <StageComment>BIDS: 02/02/2015</StageComment>
    </StageComments>
    <Addresses>
        <Address ProjectAddressType="Project">
            <AddressLine1>Stephens St</AddressLine1>
            <AddressLine2 />
        </Address>
    </Addresses>

```

```

    <City>Heflin</City>
    <StateProvince>AL</StateProvince>
    <ZipPostalCode>36264</ZipPostalCode>
    <County>Cleburne</County>
    <CountryRegion>UNITED STATES</CountryRegion>
  </Address>
</Addresses>
<Bids>
  <Bid BidDate="2015-02-02" Conditions="Mandatory Pre-Bid Conference 01/26/2015 9:00 AM" Bonding="Bid:5%" BidTo="Owner" BidTime="02:00 PM"
  BidDateAsap="false" BidDateHold="false" Classification="General Contractor" Invitation="102-13-091" BidType="Open Bidding" />
</Bids>
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  <Company Role="Owner" Name="Heflin City" URL="http://insight.reedconstructiondata.com/SingleSignOn/CompanyDetails/1200526/1" LastUpdate="2015-01-16"
  CreateDate="1993-11-22" CompanyID="1200526" DataSourceID="US">
    <Contacts>
      <Contact Name="ANNA L. BERRY" ContactID="744308" />
      <Contact Name="Wendell Wood" ContactID="650157" />
      <Contact Name="Terri Daulton" ContactID="571354" />
    </Contacts>
  </Addresses>
    <Address AddressType="Street">
      <AddressLine1>850 Ross St</AddressLine1>
      <AddressLine2 />
      <City>Heflin</City>
      <StateProvince>AL</StateProvince>
      <ZipPostalCode>36264-1166</ZipPostalCode>
      <County>Cleburne</County>
      <CountryRegion>UNITED STATES</CountryRegion>
    </Address>
    <Address AddressType="Mailing">

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<AddressLine2 />
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<StateProvince>AL</StateProvince>
<ZipPostalCode>36264-0128</ZipPostalCode>
<County>Cleburne</County>
<CountryRegion>UNITED STATES</CountryRegion>
</Address>
</Addresses>
<Phones>
  <Phone PhoneType="Company Phone Number">
    <PhoneNumber>256 463-2291</PhoneNumber>
  </Phone>
</Phones>
<ClassificationTypes>
  <ClassificationType Rank="1" Type="Owner" />
</ClassificationTypes>
<ParticipantRoles>
  <ParticipantRole RoleClassification="Owner" />
</ParticipantRoles>
</Company>
<Company Role="Civil Engineer" Name="LBYD Inc" URL="http://insight.reedconstructiondata.com/SingleSignOn/CompanyDetails/1000227532/1" LastUpdate="2014-05-27" CreateDate="2007-09-26" CompanyID="1000227532" DataSourceID="US">
  <Contacts>
    <Contact Name="John Perdue" ContactID="791498" />
    <Contact Name="Kevin Brown" ContactID="623934" />
    <Contact Name="Brian Hatcher" ContactID="837344" />
    <Contact Name="Greg Robinson" ContactID="618856" />
    <Contact Name="Bill Wilson" ContactID="698489" />
  </Contacts>
</Company>
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<Contact Name="Curtis Eatman" ContactID="618824" />
<Contact Name="Jeff Holliyan" ContactID="984469" />
<Contact Name="Richard A. Nail" ContactID="730844" />
<Contact Name="Zac Smith" ContactID="737012" />
<Contact Name="Brad Christopher" ContactID="585775" />
<Contact Name="Ben Jones" ContactID="988394" />
<Contact Name="Chris Harkins" ContactID="845898" />
<Contact Name="Edwin G Bishop Jr" ContactID="724541" />
<Contact Name="William A Wilson" ContactID="732923" />
<Contact Name="Win Bishop" ContactID="618823" />
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  <Address AddressType="Street">
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    <StateProvince>AL</StateProvince>
    <ZipPostalCode>35233-2908</ZipPostalCode>
    <County>Jefferson</County>
    <CountryRegion>UNITED STATES</CountryRegion>
  </Address>
</Addresses>
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    <PhoneNumber>205 251-4500</PhoneNumber>
  </Phone>
  <Phone PhoneType="Fax Phone Number">
    <PhoneNumber>205 488-0226</PhoneNumber>
  </Phone>
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    </Phones>
    <ClassificationTypes>
        <ClassificationType Rank="1" Type="Civil Engineer" />
    </ClassificationTypes>
    <ParticipantRoles>
        <ParticipantRole RoleClassification="Civil Engineer" ContactName="Ben Jones" />
    </ParticipantRoles>
</Company>
</Companies>
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    <User UserName="mlehman@iti-infotech.com" ProjectFlaggedForExport="false"/>
</Users>
<UpdateSummarizations>
    <UpdateSummary UpdateSummaryDate="2015-01-16" Summary="New Project" />
    <UpdateSummary UpdateSummaryDate="2015-01-16" Summary="Heflin City was added as Owner" />
    <UpdateSummary UpdateSummaryDate="2015-01-16" Summary="LBYD Inc was added as Civil Engineer" />
    <UpdateSummary UpdateSummaryDate="2015-02-03" Summary="New status information: Postbids Pending, BIDS: 02/02/2015 Changed From: BIDS: 02/02/2015,
02:00 PM, " />
    <UpdateSummary UpdateSummaryDate="2015-02-03" Summary="Updated to Post Bid stage" />
</UpdateSummarizations>
<PlanSpec Deposit="May Be Required" URL="http://insight.reedconstructiondata.com/SingleSignOn/DocumentCenter/1002203889/1/" From="Civil Engineer" />
<Details>
    <Detail DetailText="Mandatory Pre-Bid Conference 01/26/2015 9:00 AM" DetailType="Contract Conditions" />
    <Detail DetailText="1. Engineer Contact E-mail: bjones@lbyd.com 2. Mandatory Pre-Bid Conference Location = Heflin City Hall, 850 Ross Street, Heflin, AL 36264"
DetailType="Notes" />
    <Detail DetailText="Road[s],Water Piping,Excavating & Grading,Flood Control,Sewage Piping Stephens Street Improvements Heflin, Alabama,2-lane asphalt
road section of approximately 80 linear feet with an additional approximately 350 linear feet of road graded to future finished elevation. This project also includes associated grading,
drainage, and erosion control" DetailType="Scope" />
</Details>
</Project>

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CRM Integration XML format version 1.2.1 example auxiliary file

The following is an example of the CRM Integration XML format version 1.2.1 auxiliary file with sample data:

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  <Users>
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      <LoginID>johndatalink</LoginID>
      <ReedUser>John Hendrix</ReedUser>
    </User>
  </Users>
  <Queries>
    <Query>
      <QueryID>639033</QueryID>
      <SearchName>alcotex</SearchName>
      <SearchCriteria>CompanyState = 2|CANADA|Alberta, 2|CANADA|British Columbia, 2|CANADA|Manitoba, 2|CANADA|New Brunswick,
2|CANADA|Newfoundland, 2|CANADA|Northwest Territories, 2|CANADA|Nova Scotia, 2|CANADA|Nunavut Territory, 2|CANADA|Ontario, 2|CANADA|Prince
Edward Island, 2|CANADA|Québec, 2|CANADA|Saskatchewan, 2|CANADA|Yukon, 2|UNITED STATES|Alabama, 2|UNITED STATES|Alaska, 2|UNITED
STATES|Arizona, 2|UNITED STATES|Arkansas, 2|UNITED STATES|California, 2|UNITED STATES|Colorado, 2|UNITED STATES|Connecticut, 2|UNITED
STATES|Delaware, 2|UNITED STATES|Florida, 2|UNITED STATES|Georgia, 2|UNITED STATES|Hawaii, 2|UNITED STATES|Idaho, 2|UNITED
STATES|Illinois, 2|UNITED STATES|Indiana, 2|UNITED STATES|Iowa, 2|UNITED STATES|Kansas, 2|UNITED STATES|Kentucky, 2|UNITED
STATES|Louisiana, 2|UNITED STATES|Maine, 2|UNITED STATES|Maryland, 2|UNITED STATES|Massachusetts, 2|UNITED STATES|Michigan, 2|UNITED
STATES|Minnesota, 2|UNITED STATES|Mississippi, 2|UNITED STATES|Missouri, 2|UNITED STATES|Montana, 2|UNITED STATES|Nebraska, 2|UNITED
STATES|Nevada, 2|UNITED STATES|New Hampshire, 2|UNITED STATES|New Jersey, 2|UNITED STATES|New Mexico, 2|UNITED STATES|New York,
2|UNITED STATES|North Carolina, 2|UNITED STATES|North Dakota, 2|UNITED STATES|Ohio, 2|UNITED STATES|Oklahoma, 2|UNITED STATES|Oregon,
2|UNITED STATES|Pennsylvania, 2|UNITED STATES|Rhode Island, 2|UNITED STATES|South Carolina, 2|UNITED STATES|South Dakota, 2|UNITED
STATES|Tennessee, 2|UNITED STATES|Texas, 2|UNITED STATES|Utah, 2|UNITED STATES|Vermont, 2|UNITED STATES|Virginia, 2|UNITED
STATES|Washington, 2|UNITED STATES|Washington DC, 2|UNITED STATES|West Virginia, 2|UNITED STATES|Wisconsin, 2|UNITED STATES|Wyoming;
State = 2|CANADA|Alberta, 2|CANADA|British Columbia, 2|CANADA|Manitoba, 2|CANADA|New Brunswick, 2|CANADA|Newfoundland,
2|CANADA|Northwest Territories, 2|CANADA|Nova Scotia, 2|CANADA|Nunavut Territory, 2|CANADA|Ontario, 2|CANADA|Prince Edward Island,
2|CANADA|Québec, 2|CANADA|Saskatchewan, 2|CANADA|Yukon; Including Null Value Projects = False; Project Value Max = 9999999999; Project Value
Min = 1</SearchCriteria>
    </Query>
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  <Projects>
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      <ProjectName>Hospital Alts: Hôpital du Sacré-Coeur de Montréal</ProjectName>
    </Project>
  </Projects>

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<ProjectName>Subway Station Alt: Pump Replacement</ProjectName>
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<ProjectName>Private Elementary School Alts: St Augustine School - Replacement Phase 2</ProjectName>
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</Project>
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</CustomerQueryProjects>
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Appendix C – CRM Integration XML Format Version 1.2.1 Export Schema

Introduction

This section contains a link to the CRM Integration XML format version 1.2.1 export schema.

CRM Integration XML Format Version 1.2.1 Export Schema

Click on the link below to open the CRM Integration XML format version 1.2.1 export schema in your system's default browser:

<http://insight.cmdgroup.com/schemas/schDataLinkConfV1.2.1.xsd>