Specifications Extraction – Quick Guide

Overview – Specifications Extraction

This quick guide explains how to use the specifications extraction feature in CMiC ECM Explorer to extract specification details from a project manual/specifications book to automatically generate a submittal log in CMiC Field.

Performing a Specifications Extraction

Step 1: Preparing a Specifications Document for Extraction

2.5	MORTAR AND GROUT MATERIALS
А.	Portland Cement-Lime Mix: Packaged blend of portland cement and hydrated lime containing no other ingredients.
В.	Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes and complying with ASTM C 979/C 979M. Use only pigments with a record o satisfactory performance in masonry mortar.
	 Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:
	 a. Davis Colors. b. Euclid Chemical Company (The); an RPM company. c. Lanxess Corporation. d. Solomon Colors, Inc.
C.	Aggregate for Mortar: ASTM C 144.
	 For mortar that is exposed to view, use washed aggregate consisting of natural sand or crushed stone. For joints less than 1/4-inch thick, use aggregate graded with 100 percent passing the No. 16 sieve. White-Mortar Aggregates: Natural white sand or crushed white stone. Colored-Mortar Aggregates: Natural sand or crushed stone of color necessary to produce required mortar color.
D.	Cold-Weather Admixture: Nonchloride, noncorrosive, accelerating admixture complying with ASTM C 494/C 494M, Type C, and recommended by manufacturer for use in masonry morta of composition indicated.
	 Manufacturers: Subject to compliance with requirements, available manufacturer offering products that may be incorporated into the Work include, but are not limited to the following:
	 a. BASF Corp Construction Chemicals. b. Euclid Chemical Company (The); an RPM company. c. GCP Applied Technologies Inc. (formerly Grace Construction Products).
E.	Water: Potable.
2.6	REINFORCEMENT
Α.	Uncoated Steel Reinforcing Bars: ASTM A 615/A 615M or ASTM A 996/A 996M, Grade 60.
B.	Reinforcing Bar Positioners: Wire units designed to fit into mortar bed joints spanning masonry unit cells and to hold reinforcing bars in center of cells. Units are formed from 0.148-inch stee wire, hot-dip galvanized after fabrication. Provide units designed for number of bars indicated.

Sample of a specifications document

Prepare a PDF file of the specifications document. This is the document from which specification details will be extracted to generate a submittals log. As shown in the above screenshot, the "Concrete Unit Masonry" on the bottom left of the page is the specification section, the "2.5 Mortar and Grout Materials" is the sub-specification section, and the "Portland Cement-Lime Mix" is the submittal. Each bullet point under the specification section will be uploaded as a submittal during the specifications extraction process.

NOTE: Ensure a colon is placed after the submittal name (as shown in the above screenshot) to separate it from the description during the specifications extraction process.

CMiC ECM Explorer	
$\equiv \mathcal{Z}$ ‡ \intercal Search	Document Data Extraction $- imes$
	1. Select Project
Image: Second	(0000016) # 1 - Opportunity (01-DUPLICA) # 2 test (JULY11-3) # 3 job (04-DUPLICA) # 4 2. Enter Details Document Type Specifications (Beta) Version Name Revision Date 10/05/2019 TS Revision no. 0
Name Modified On Created By Size	Received Date 10/05/2019 3. Select Document(s) 4. Select Extraction Regions Drag and drop files or click to browse Proceed D to not include nested folders Proceed S. Submittals Extraction Extract Submittal's from Part-1, where the word 'Submittal' is referred All Sub-Sections will be extracted
Locked By Self Locked	Disable Automatic Drawing Set Packaging Cancel

Step 2: Document Data Extraction

In CMiC ECM Explorer, click on the Data Extraction icon () to open the Document Data Extraction pop-up window. After selecting a project in the Select Project section, change the Document Type field in the Enter Details section to "Specifications (Beta)", as shown in the above screenshot.

The Submittals Extraction section will then appear on the bottom of the window with two toggles, Extract Submittals From Part-1 and Extract Submittals From Part-2. By default, Extract Submittals From Part-2 toggle is enabled and the Extract Submittals From Part-1 toggle will be disabled.

In the Select Document(s) section, the user can drag and drop files into the region if Windows Explorer is already open, or click it to open the Windows Explorer window, where they can browse and select files.

Click the [**Proceed**] button under the Select Extraction Region section once a specification document has been selected.

Doe	ument Data Extraction	— 🗆 X
	∲	न¦+ Q Q < 1ø24 >
	Draw a rectangle that measures the distance between the start of the section and first bullet point.	CIHLDRENS THERAPY PLACE CTP BOISE, ID SECTION 042200 - CONCRETE UNIT MASONRY PART I - GENERAL
	Watch training video Process	LA I FORMARE RELATED DOCUMENTS Conditions and Division 01 Specification Sections, apply to this Section. SUMMARY
Þ		A. Section Includes: 1. Concrete macory units. 2. Decourse concrete macory units. 3. Pro-faced concrete macory units. 4. Sted configuration of the second seco
		B. Products Installed but not Furnished under This Section: 1. Cast-store trim in concrete unit masorry. C. Relieda Requirements: 1. Section 051200 "Structural Steel Framing" for installing anchor sections of adjustable masorry anchors for connecting to structural steel finane.
		L3 DEFINITIONS DEFINITIONS A. CMU(s): Concrete manony unit(s). R. Reinfored Manony: Manony containing reinforcing steel in groated cells. IA PREINSTALLATION MEETINGS
		A. Preinstallation Conference: Conduct conference at Project site. I.5 ACTION SUBMITTALS A. Product Data: For each type of product.
		CONCRETE UNIT MASONRY 042200 - 1

Step 3: Select Extraction Regions

The user will be prompted to draw four boxes for the specification number, specification name, the content frame, and the distance between bullet points, as shown in the above screenshot. When drawing each box, make sure to draw it large enough to capture all of the text for each region.

NOTE: For each step in the selection process, there is a Watch Training Video link available that will display a video demonstrating the drawing/selection process.

Specification Number

A red box will be used to draw around the specification number.

Specification Name

A blue box will be used to draw around the specification name.

Content Frame

A black box will be used to draw around the content frame. This tells the tool where the main content is and ignores the header and footer of the document.

Distance Between Bullet Points

A green box will be used to specify the distance between each bullet point. This tells the system how much space there is between the main header and subsequent bullet points. It uses the spacing to grab each sub-bullet point as a new submittal.

NOTE: The green selection box needs to be touching the bullet point.

Step 4: Grid View

Janeer	abel Sheet 1	litle Label	Sheet Name	Design	Designer	Section	Section	Revision	Revision Date Vers	ion
04220	00 - 1 (05EX40)	42200	CONCRETE UNIT MASONRY					0	13/05/2019	
05120	00 - 1 DEEM	051200	STRUCTURAL STEEL FRAMING					0	13/05/2019	
0531	<u>а-б</u> ан	053100	STEEL DECKING					0	13/05/2019	

Once the extraction regions have been selected and processed, the Grid View shows that the pages have been separated and the user can edit each column like drawings. The first two columns are snapshots of the sheet name and label, while the rest of the columns can be edited.

Allow Multi-Select - Toggle

Switch this toggle on to enable multi-select. Once enabled, the following icons will become available:

in this icon will delete selected sheets.

- This will update the column text for the selected sheets.
- \gg This will trim the column text for the selected sheets.
- \mathbf{T} This will append the column text for the selected sheets.
- \bigcirc This will allow the user to specify extraction regions for the selected sheets.
- O Rotate the selected sheets left.
- C Rotate the selected sheets right.
- \rightarrow Combine the selected sections.

Click [Validate] when editing is complete. Once the data has been validated, the [Link Files] button will appear. Click this button to place hyperlinks on matching sheet labels.

Step 5: Linked Files

Label Sheet Name	$igodot$ Aal e_{1}^{1} $igodot$ $igodot$ $igodot$ $igodot$ $igodot$
51200 STRUCTURAL STEEL FRAMING	
53100 STEEL DECKING	CHILDRENS THERAPY PLACE CTP BOISE, ID
53300 STELDECKNG	BOSE, D SECTION 942200 - CONCETTE UNIT MASONRY PART 1 - GENERAL 1.1 RELATED DOCUMENTS A. Densing and general provisions of the Contract, including General and Supplementary Contractions and Drivino 01 Specification Sections, apply to the Section. 1.2 SUMMARY A. Section Include: 1. Density of the Contract, including General and Supplementary Contractions and Drivino 01 Specification Sections. 2. SUMMARY A. Section Include: 1. Density of the monory units. 2. Supplementary Contractions and Drivino 01 Specification Sections. 3. Density of the monory units. 4. Monory units of the Contract, including and/or sections of adjustable monory units. 6. Manory units. 7. Related Requirements: 1. DEFINITIONS 1. Relation Contractions structural action fance. 1.4 PREINSTALLATION MEETINCS A. Preinstration Conference: Conduct contract and struct contract structural action. 1.4 PREINSTALLATION MEETINCS A. Preinstration conference: Conduct contract and struct cont. 1. ACTIO

Once the hyperlinks have been processed, a list of labels will appear on the left-side panel and the user can click each label to view the sheets available on the right-side panel, as shown in the above screenshot. When the [**Proceed**] button has been clicked, the following Confirmation pop-up window will appear.

1	Confirmation
	Would you like to upload the Specifications Documents?
	Yes No

It is recommended to click [No] to open up edit mode after processing, as clicking [Yes] will auto-create the submittals for the user.

Select a Specificat Aal 🕂 42200 - CONCRETE UNIT MA Submittals for the selected Specification CHILDREN'S THERAPY PLACE BOISE ID Description 2.1 MANUEACTURERS (2) 2) Obtain exp within the manufactu Obtain mo from singl units of a uniform texture and color, or a unifor ٠ rings on gro ect sills, ledg itations for ranges acce arer for each product req ents of a unit red. m quality, including color for expo propert and from : ations for 2.2 PERFORMANCE REO • e strengths at 28 IRY, GENERAL (3) PART 2 - PRODUCTS h TMS 602/ACI 530.1/ASCE 6 except as Ŧ Masonry Standard init standards may allow a certa 2.1 MANUFACTURERS Defective Ur testing agency a 2.4 CONCRET UNITS (3) MANCE REQUIREMENT Provide unit masonry that develops indicated ne te net-area compressive strength of masonry from average net of masonry units and mortar types (unit-strength met 2/ACI 530, I/ASCE 6. its made with integral wat nd strength. Units made with to ASTM E 514/E 514M as a v net-area compr o ASTM C 1314 ive strength of masonry by rs, shall show no visible water or leaks on the bac UNIT MASONRY, GENERAL to that i sted into the W Masonry Standard: Comply with TMS 602/ACI 530.1/ASCE 6 except requirements in the Contract Documents. le hut a lowing 1) ACM Chemistries. 2) BASF Corp. - Cor al Company (The); an RPM company. 4) GCP Ap cts). 5) Moxie CONCRETE UNIT MASONRY 042200 - 4 Allow Multi Select + Upload Cancel

Step 6: Editing Submittals for the Specification

This screen allows the user to edit the Name, Description, and Type fields for the submittals. The Add New

Submittal icon (+), found near the bottom left corner of the window, allows the user to create a new submittal and add it to the specification section under any of the sub-specification sections. Each sub-specification section shows how many submittals it contains in brackets. Once editing is complete, click the [Upload] button. The submittals will appear in CMiC Field > Document Management > Submittals and can be found using the Spec. Section column.

Step 7: Submittals

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Submittals; standard Treeview path: CMiC Field > Document Management > Submittals

Once the upload process is complete, navigate to the Submittals screen found in CMiC Field > Document Management. The submittals that were processed can be found in the Spec. Section column, framed in red above.

Setup

RTI Settings

The following RTI setup is required on the RTI Maintenance screen in CMiC Field and on the General tab of the ECM Explorer Settings screen.

CMiC Field

- 1. Navigate to CMiC Field > File Maintenance > Real-Time Integration > RTI Maintenance.
- 2. In the Internal Site tab, add a new item called "CMIC", as shown in the screenshot below.

CMIC FIELD											D to d
CHIC Field Menu	Internal Site	Internal Adapter External Site	External Adapter	F External Site Ip	Communication Links	E-Mail Bla	ckout Schedule	Adapter Type	Version	Resource	Software System
Project: PC PROJ (PCPROJ)	CMEC	Internal Site Name	ht	tps://www.mycompany.co	Transmit Url		V1 🛩	Intern	al Ste Version		Action
Document Management Subcontractor Prequalification Bid Management Udget & Cost Management Site Management											

3. In the External Site tab, add a new item called "GENERIC".

CHIC Field Menu	Internal Site Save	Internal Adapter	External Site	External Adapter	External Site Ip	Communication Link	s E-Mail	Blackout Schedule	Adapter Type	Version	Resource	Software System	Resou
Project: 1 New Community Centre Way (CF			External Site	Name					External Site Version				Action
Communication Management	DEVV10X					v1 💌							+×
Document Management Subcontractor Pregualification	DocuSign					v1 💌							+×
Bid Management	GCS_TEST					v1 💌							+×
Budget & Cost Management Site Management	GENERIC					v1 💌							+×
Reports	Generic (Brian)					v1 💌							+×
User-Defined Logs	PTFV10X					v1 💌						4	+×
File Maintenance	Sales v10					v1 💌						4	+×
BIM 360 Maintenance	SANDBOX					v1 💌							+×
Menu Maintenance Enterprise PM	TEXTURA					v1 •							+×
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RTI Maintenance; standard Treeview path: File Maintenance > Real-Time Integration > RTI Maintenance – External Site tab

- 4. In the Internal Adapter tab, set the following for each adapter type:
 - Http Receive Adapter for Generic: GENERICRA
 - Http Transmit Adapter for Generic: GENERICTA

NOTE: If the "CMIC" option is missing from the Internal Site drop-down list and there is no option to add a new row, click the [**Save**] button.

roject: 1 New Community Centre Way (CF Communication Management Document Management Subcontractor Prequalification Bid Management Sudget & Cost Management	Internal Site CMIC Version V1 Adapter Type Http Receive Adapter for CMIC Software Http Receive Adapter for CMIC Software		Adapter Name						
Communication Management Document Management Subcontractor Prequalification Bid Management Budget & Cost Management	Http Receive Adapter for CMIC Software		Adapter Name						Save
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Subcontractor Prequalification Bid Management Budget & Cost Management	Http Receive Adapter for CMIC Software		test	test				HTTP	REST
Bid Management Budget & Cost Management			TESTV10X Receive Adapter	TST-AD-RT				HTTP	REST
	Http Receive Adapter for DocuSign	•	DOCUSIGNIRA	DOCUSIGNIRA				HTTP	REST
	Http Receive Adapter for DX		DXRA	DXRA				HTTP	REST
Ste Management Reports	Http Receive Adapter for GCS		GCSR	GCSR				HTTP	REST
User-Defined Logs	Http Receive Adapter for Generic	-	GENERICRA	GENERICRA	-			нттр	REST
File Maintenance	Http Receive Adapter for Generic	-	GR1	GR1	-			HTTP	REST
	Http Receive Adapter for Textura			TXR	1			нттр	REST
Menu Maintenance Enterprise PM	Http Transmit Adapter for CMiC Software			TST-AD-TX	1			HTTP	REST
	Http Transmit Adapter for DocuSign		DOCUSIGNITA	DOCUSIGNITA				HTTP	REST
Company Control	Http Trapsmit Adapter for DX		DXTA	DXTA	1			HTTP	REST
Project Maintenance Activities	Http Transmit Adapter for GCS		GCST	GCST	1			HTTP	REST
User-Defined Log Types	Http Transmit Adapter for Generic	A.c.m.d	GENERICTA	GENERICTA	-			нттр	REST
- User-Defined Logs	Http Transmit Adapter for Generic	-		GT1	-			HTTP	REST
	Http Transmit Adapter for Textura		TXT	TXT				HTTP	REST
Default Filters	портавля марте на техника		TAT	IAI				inte	NL31
User-Defined Fields User-Defined Classifiers Report Assignment									
- Prompt Maintenance									
User Defaults Maintenance Document Merge									
Real-Time Integration									
RTI Maintenance RTI Mapping									

RTI Maintenance; standard Treeview path: File Maintenance > Real-Time Integration > RTI Maintenance - Internal Adapter tab

- 5. In the External Adapter tab, set the following for each adapter type:
 - Http Receive Adapter for Generic: GENERICRA
 - Http Transmit Adapter for Generic: GENERICTA

 Internal Site Internal Adapter 	Exter	nal Site Extern	al Adapter Ex	ternal Site Ip	Communication Li	inks E-Mail Blackout Sc		
External Site GENERIC Version	v1							
Adapter Type		Adapte	r Name	Ad	apter ID	External	Client ID	
Http Receive Adapter for Generic	•	GENERICRA		GENERICRA				
Http Transmit Adapter for Generic	•	GENERICTA		GENERICTA				
			1					

RTI Maintenance; standard Treeview path: File Maintenance > Real-Time Integration > RTI Maintenance – External Adapter tab

- 6. In the Communication Links tab, make the following changes to each field:
 - Change Software System to "Generic"
 - Link: GENERICL1
 - Link Identify Code: GENERICL1
 - Internal Site: CMIC
 - Internal Receive Adapter: GENERICRA
 - Internal Transmit Adapter: GENERICTA
 - External Site: GENERIC
 - External Receive Adapter: GENERICRA
 - External Transmit Adapter: GENERICTA
 - Validate IP Address: No

 Internal Site 	Internal Adapter	External Site	External Adapter	External Site Ip	Communication Links	E-Mail	Blackout	Schedule Adapter	Type Version	Resource	Software Syster
Software System Ge	Software System Generic Save										
Link	Link Identity (Code I	nternal Site In	ternal Receive Adapter	Internal Transmit Adapter	External	Site	External Receive Adapter	External Transmit Ada	pter Valida	ate IP Address Ac
GENERICL1	GENERICL1	CMIC	▼ GE	ENERICRA 💌	GENERICTA 💌	GENERIC	•	GENERICRA 💌	GENERICTA 💌	No 💌	+

RTI Maintenance; standard Treeview path: File Maintenance > Real-Time Integration > RTI Maintenance – Communication Links tab

ECM Explorer

In the ECM Explorer Settings' General tab, navigate to the RTI Configuration section.

1. RTI WS Base URL: <u>https://[environment]/</u>

e.g. https://v10xsandboxwls.cmicglobal.com/cmicprod/

- 2. Link Identity Code: GENERICL1
- 3. Receive Adapter Identity Code: GENERICRA
- 4. Transmit Adapter Identity Code: GENERICTA

General	Servers	Proxy	Cloud	Drawing Managemen	t	
Synchronizat						
	Auto-Sy	ncronize Files F	requency		Retry failed Synch	ronization Frequency
Q		1 I I	1 I I I		V	
30 Min					15 Min	
	Pull N	lotifications Fre	quency			
		0 Min				
Lock					Revisions	
CLock all downloaded files.					Synchronize latest revisions only.	
Ask before downloading files.					Synchronize all revisions.	
No Lock on downloaded files.					Enable server auto renaming	
Document Extraction Output Folder					Drawing Data Extraction	Application Version
C:\ECM Extrac	tion					
			Set Default	Browse	Extract Designer Ref. Value	5.1.43.0
RTI Configura	ation					
RTI WS Base U		https://v10xsa	andboxwls.cmica	lobal.com/cmicpro		
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