

# BPL and Workflow - check/authorisation of HL7 Message

Question



[Warren Baldock](#) · Aug 5, 2020

## BPL and Workflow - check/authorisation of HL7 Message

Hi Everyone,

I'm currently implementing an interface solution to send through data to community pharmacies here in the UK from our hospital PAS system. As part of this project i have created a BPL which calls a SQL operation to infiltrate our Data warehouse and add to the message - this is all done and working as i expect.

What I now need to implement is something through Workflow- the idea is the hospital pharmacy team wish to approve and authorise the message before it is sent onto the outbound operation, so i have set up the workflow, set up the actions to enable the pharmacist to approve / reject., and as part of that i have taken some of the fields within the HL7 message, set to context variables and then im able to pull those into the workflow task request as %Formfields and %formValues, which works great for single fields. This is then arranged via a custom form/ csp page.

What im wondering is if it is possible at all to "tabulate" a repeating HL7 segment (in this instance OBX) and then display that within the form e.g:

HL7 Message example (its all test data)

1	MSH		^~&		CSCLCRC		RTG		TIE		RTG		20200113132714		655127217104		ADT	^	A03	^	ADT_A03		600000461706		P									
2	EVN		.		20200113132714		.		IDS-C		.		.		.		.		.		.		.		.									
3	PID		1		02038625	^	.	^	.	^	RTG	^	FACIL	^	RTG		GPTTEST	^	MAGNYCOURS		.		19760104000000		M		.							
4	PD1		.		BARTON	^	.	^	M83065	^	.	^	.	^	NATNL		G8344731	^	SHILTON	^	AL	^	.	^	.	^	DR	^	.	^	NATGP	^	.	
5	PV1		1		CMAU	^	RDMHL1MAU	^	RDMHL1MAUBAYA1BED3	^	RTG	^	NORMAL	^	BEDSPACE	^	.	^	RDMHL1MAUBAYA1		.		.		.		.		.		.		.	
6	PV2		.		3		.		.		.		.		.		20200116131100		.		.		.		.		.		.		.		.	
7	ZU1		.		8		.		.		.		.		.		.		.		.		.		.		.		.		.		.	
8	OBX		1		mirtazapine		NULL		.		.		.		.		.		.		.		.		.		.		.		.		.	
9	OBX		2		omeprazole		NULL		.		.		.		.		.		.		.		.		.		.		.		.		.	
10	OBX		3		tamsulosin hydrochloride		400micrograms		.		.		.		.		.		.		.		.		.		.		.		.		.	
11	OBX		4		warfarin sodium		NULL		every_DAY at 6pm		.		.		.		.		.		.		.		.		.		.		.		.	

Custom workflow form: (note not finished so ordering all over the place, and just put the HL7 message into the form just so i could see it.)

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84:57772/csp/deplor524/\_DeepSee.UserPortal.Workflow.zen?ID=305936269%7C%7CWARREN

User: WARREN

Licensed to: Derby Hospitals NHS Foundation Trust

#	Priority	Subject	Message	Role	Assigned to	Time
1	Highest	Community Pharmacy Referral	Review Required for Patie	PharmOutcomes Referrals	WARREN	Today

- Details for selected item Relinquish Save Approve Reject

Subject: **Community Pharmacy Referral** Priority: **WARREN** Assigned To: **WARREN** Time Created: Today at 12:28:53 Role: PharmC  
 Message: Review Required for Patient:02038625 for Episode ID:2019V3751474

**Please review details below and select Approve or Reject as required.**

*If Approved, information will be sent to Community Pharmacy electronically*

Hospital Number	02038625	Visit ID	2019V3751474
Name	MAGNYCOURS GPTEST	Admission Date	20200113131100
Date of Birth	19760104000000	Discharge Date	20200113132657
Gender	M	Ward	MAU - Medical Assessment Unit
		Consultant	Rajendranadh Bommireddy

MSH|^~\&|CSCSLRC|RTG|TIE|RTG|20200113132714|655127217104|ADT^A03^ADT\_A03|600000461706|P|2.4|34990||AL|NE|GBR|UTF-8||LZO\_R2\_4 EVN||20200113131100|G8237772^STOKES-  
 PD1||BARTON^M83065^NATNL|G8344731^SHILTON^AL^DR^NATGP^600000046378 PV1|1||CMAU^RDMHL1MAU^RDMHL1MAUBAYA1BED3^RTG^NC  
 Medical Assessment Unit|22|2019V3751474^RTG||G8237772^STOKES-  
 LAMPARD^HJ^DR^NATGP^M83078^600000044531|655046089107^Bommireddy^Rajendranadh^SDSID^600000134174~C4564191^Bommireddy^Rajend  
 PV2||3||20200116131100 ZU1||8||||||||||||||||||||110 OBX|1|mirtazapine|NULL| OBX|2|omeprazole|NULL| OBX|3|tamsulosin hydrochloride|400micrograms| OBX|4

ODS Code	FCV56
Name	T.A Rhodes

I've assigned the values within the custom form to context variables, and they can then be pulled into the form which works great

How (if possible) can i do similar with a repeating segment within the HL7 Message - can i "tabulate" that information and display it at all?

Open to suggestions of course- first time I've used BPL and workflow, certainly the first time workflow has been considered in our trust so not a lot of knowledge out there.

Thanks in advance - happy to give further detail where required.

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