## OSEHRA VistA Internationalization Project Group—Phase 2 Start

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#### Schedule

Task Name	Duration	Start	Finish	Q3 2018		Q4 2018		Q1 2019		Q2 2019		ð			
					Aug	Sep	Oct	Nov	Dec		Feb	Mar	Apr	May	Jun
VistA Internationalization	228d	08/01/18	06/14/19												
Korean Language Integration	145d	08/01/18	02/19/19												
CPRS Read and Write	14w	08/01/18	11/06/18					-							
Fileman / Role and Scroll	6w	11/07/18	12/18/18					+							
HL7 Operating Capability	6w	12/19/18	01/29/19						+		1				
Packaging, Compiling, and Documentation	3w	01/30/19	02/19/19								Ļ				
Chinese Language Integration	35d	02/20/19	04/09/19												
🖝 German Language Integration	20d	04/10/19	05/07/19												
Arabic Language Integration	18d	05/08/19	05/31/19												
Final Packaging, Compiling, and Documentation	2w	06/03/19	06/14/19												

#### XWBRW

- Previous phase added uses or \$ZL and \$ZE for UTF-8 read/write over TCP
- \$ZL and \$ZE moved to \$\$BL^%ZOSV and \$\$BE^%ZOSV
- Potential Intersystems Cache Implementations
  - \$\$BL: \$L(\$ZCONVERT(string,"O","UTF8"))
  - \$\$BE: \$E(\$ZCONVERT(string,"O","UTF8"),S,E)



# **Patient Name Entry**

- Names are different in each culture
  - This project does not address flexibility
  - Still retaining "surname, given middle" format
- Allow CJK Names to be entered
  - Name code wanted UPPERCASE names
    - No case in CJK, Semetic, Brahmic scripts
  - CJK names are very short
    - Typically 1-2 characters



# **CJK Name Fixes**

- XLFNAME8, DPTLK2, DPTNAME
  - Allow entry of name for caseless languages
- DPTLK, DPTLK1
  - Allow one glyph long surname/given
- (took much longer to find these issues!)

## **Fileman Data Localization**

- We need a way to localize data that exists in Fileman
  - Existing DIALOG file framework focuses on routines
  - E.g. Names of CPRS Reports; Menu system



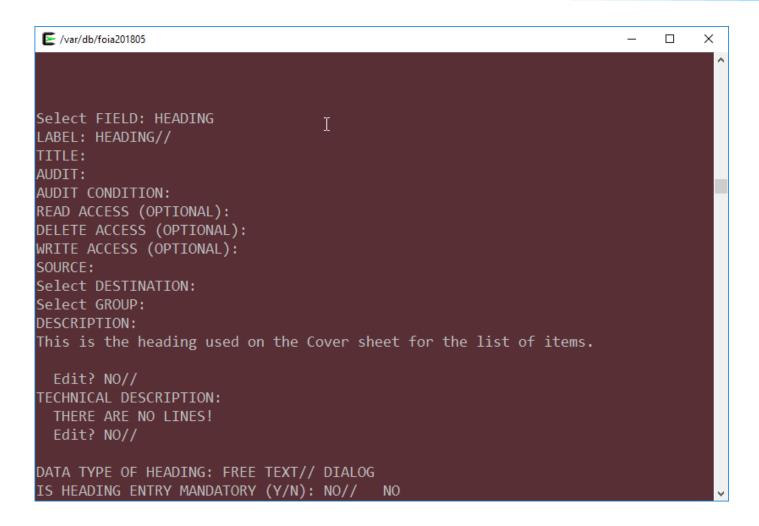
# **Data Localization Steps**

- Need FM 22.2 with data type patches (originally scheduled for FM 23)
- Create DIALOG data type
- Change type for field to be translated to DIALOG
- Create DIALOG entries
- Update data to point to DIALOGs
- (optional) Adjust getters to use FM API

# **DIALOG Data Type**

E /var/db/foia201805	– 🗆 X
2 DATA TYPE METHOD	(6 entries) ^
3 DATA TYPE PROPERTY	(16 entries)
CHOOSE 1-3: 1 DATA TYPE	(20 entries)
Select DATA TYPE: DIALOG	
Another one:	
Standard Captioned Output? Yes// (Yes	)
<pre>Include COMPUTED fields: (N/Y/R/B): NO</pre>	// - No record number (IEN), no Computed
Fields	
Display Audit Trail? NO//	
NUMBER: 10001	NAME: DIALOG
INTERNAL REPRESENTATION: F	STANDARD PROMPT: DIALOG
SORT BY EXTERNAL?: YES	
SHORT DESCRIPTION: EITHER LOOKS LIKE	A FREE-TEXT FIELD, OR ELSE A POINTER TO A
DIALOG (FILE .84)	
FIELD DEFINED BY THIS TYPE: 101.24,.23	
METHOD: OUTPUT TRANSFORM	<pre>M CODE: S:+Y=Y Y=\$\$EZBLD^DIALOG(Y)</pre>
Select DATA TYPE:	
F0IA201805>	
F0IA201805>	v

## Change field data type (101.24/HEADING)



#### **Create DIALOG entries**

E /var/db/foia201805	_		×
OIA201805>D ^DIQ			^
Output from what File: DATA TYPE// DIALOG (2574 entries)			
Gelect DIALOG: 1012400.0028 Active Problems			
Standard Captioned Output? Yes// (Yes)			
Include COMPUTED fields: (N/Y/R/B): NO// - No record number (IEN), Fields	no	Compu	ted
I			
DIALOG NUMBER: 1012400.0028 TYPE: GENERAL MESSAGE			
PACKAGE: ORDER ENTRY/RESULTS REPORTING SHORT DESCRIPTION: Active Problems			
TEXT:			
Active Problems ANGUAGE: KOREAN			
FOREIGN TEXT:			
활성 문제 			
Gelect DIALOG:			



# Change Data to point to DIALOG

Output from what File: OE/RR REPORT// (172 entries) Select OE/RR REPORT NAME: `28 ORCV ACTIVE **PROBLEMS** 1012400.0028 Another one: 29 ORCV ALLERGIES 1012400.0029 Another one: `30 ORCV POSTINGS 1012400.003 Another one: `31 ORCV ACTIVE MEDICATIONS 1012400.0031 Another one: `32 ORCV CLINICAL REMINDERS 1012400.0032 Another one: `33 ORCV RECENT LAB RESULTS 1012400.0033 Another one: `34 ORCV VITALS 1012400.0034 Another one: `35 ORCV APPOINTMENTS 1012400.0035

#### **Now CPRS CoverSheet...**

④ VistA CPRS in use by: 사용자,하나 (127.0.0.1)							
파일(E) 수정(E) 보기(V) 도구(	<u>T</u> ) 도움말( <u>H</u> )	<i>⊳</i>					
	i <b>sit Not Selected</b> ovider: 사용자,하나	No PACT assigned at any VA location /		료주 <mark>Vista</mark> 의사 Remo	<b>Web</b> te Data		ostings
1012400.0028	1012400.0029		1012400				
No Problems Found.	No Allergy Assessment		No Patie	ent Postings F	ound.		
1012400.0031		2400.0032					
No Active Medications Found		Tobacco Cessation Education DUE Breast Self Exam Education DUE					
1012400.0033	1012400.0034		012400.0035				
No Orders Found.	No data found	Ň	No data found				
표지 질환 약물 주문 노트	트 진찰 퇴원 기록 검사	보고서					

## Edit ORWCV1...

 Use standard Fileman API rather than direct global get
 S HEAD=\$\$GET1^DIQ(101.24, \$P(LIST(I),U,2),.23); OSE/SMH - was S HEAD=\$P(X2,"^",3)



#### **CPRS Coversheet After**

<ul> <li>전 VistA CPRS in use by: 사용자,하나 (127.0.0.1)</li> <li>파일(E) 수정(E) 보기(V) 도구(I) 도움말(H)</li> </ul>	$\searrow$	– 🗆 X
COYOTE, WILEY (OUTPATIENT)         Visit Not Selected           801-11-1176P         Nov 11, 1976 (42)         Provider: 사용자,하나	No PACT assigned at any VA location /	요주 의사 Remote Data
활성 문제 알레르기 / 부작용 History Df Alcohol Abuse (SCT 3714340 No Known Allergies		환자 게시 No Patient Postings Found.
활성 약물 No Active Medications Found	임상 알림 마감일 [ZZ Digital Rectal (Prostate) Exam DUE NOW ZZ Tobacco Cessation Education DUE NOW ZZ Advanced Directives Education DUE NOW	
HT 63,386 in Nov WT 99,21 lb Nov	/ 06, 2018 11:42 / 06, 2018 11:40 (161.00 cm) / 06, 2018 11:40 (45.00 kg) / 06, 2018 11:40	에약 / 방문 / 입학 Nov 06, 2018 11:38 일반 의학 Ac Oct 25, 2018 14:14 Inpatient Stay3 West
표지 질환 약물 주문 노트 진찰 퇴원기록	검사 보고서	



## Next 2 Weeks

Localize Sample Menu in Menu System

Fileman data localization

- Localize Simple Workflow in Outpatient Pharmacy
  - Routine localization
- HL7 Patient Send
- Korean Lexicon Load
- See you next week