

CUSTOM SOFTWARE SYSTEMS, INC.
HOSPITAL INFORMATION MANAGEMENT SYSTEM
Pyxis - INTERFACE DOCUMENTATION

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Overview

Pyxis

Pyxis is a provider of medication and supply dispensing systems to hospitals, nursing homes and other healthcare providers. The interface is real time for admissions, discharges & transfers along with an on-demand interface for patient charges.

Additional information on Pyxis can be obtained from their website <http://www.pyxis.com>.

Current Process

To date, implementations of the interface have been based around serial communications from the Pyxis server to the CSS server. Census related data is passed from the CSS server to the Pyxis server via this serial connection. Patient charges are passed from the Pyxis server to the CSS server via a diskette or in some cases a file transfer from one server to the other. Future implementations will be based on networked communications with an active handshake for Census related data passed between the two servers.

Clients that implement this interface must be prepared to address census changes in a real time environment. For patients setup on the Pyxis system using false patient numbers (birth-date, etc) clients must recognize that charges associated with these patients will create exceptions that must be manually reviewed and posted in the business office.

Benefit

Properly implemented, benefits of the interface include the elimination of duplicate data entry and as a result the improved accuracy of patient records.

Record Layouts

All file formats transferred between the two systems are based on an ASCII file where each record is terminated by carriage return and line feed. Since the data transfer is within the local area network, no data encryption is used.

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Census Data

Field Description	Field Type/Length	Starting Field Position	Note:
Patient Number	7 digits, numeric, right-justified	1	1
Account Number	7 digits, numeric right-justified	8	2
Admission Counter	3 digits, numeric, right-justified	15	3
Nursing Station	6 characters, alphanumeric, left-justified	18	
Bed Number	5 characters, alphanumeric, left-justified	24	
Patient Name	25 characters, LASTNAME, FIRSTNAME format	29	
Admission Date	6 digits, numeric, MMDDYY format	54	
Admission Time	6 digits, numeric, HHMMSS format	60	
Diagnosis Code	6 character, alphanumeric	66	
Patient Status	1 character, (0=OP, 1=LTC, 2=Inpatient)	72	
Height	3 digits (inches -- NOT USED)	73	Not Used
Weight	5 digits with an implied decimal point between 4 & 5	76	Not Used
Discharge Date	6 digits, numeric, MMDDYY format	81	
Birth Date	6 digits, numeric, MMDDYY format	87	
Patient Sex	1 character, (M=Male, F=Female)	93	
Discharge Time	6 digits, numeric, HHMMSS format	94	
Update Date	6 digits, numeric, YYMMDD format	100	4
Update Time	8 digits, numeric, HHMMSSHH format	106	4
Address-1	25 characters	114	
Address-2	25 characters	139	
City	23 characters	164	
State	2 characters	187	
Zip	5 characters	189	
Zip Extension	4 characters	194	
Home Phone	10 digits, area code + phone number	198	
Birth Place	12 characters	208	
SSN	9 characters	220	
Marital Status	1 character	229	5
Transaction Code	1 character	230	6
Filler	1 character	231	
Admission Site	1 character, site-dependent	232	
Miscellaneous	17 characters	233	
Notes:			
1	This is an arbitrary number assigned for the Lab system to make each stay a unique record for the lab		
2	CSS financials Patient/Account/MR number		
3	Unique counter assigned to each patient visit in CSS financials		
4	Date / Time this record was created/updated.		
5	(1=Single, 2=Married, 3=Divorced, 4=Widowed, 5=Separated)		
6	See next section		

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Transaction Codes

The transaction code is a 1 character field in position 230.

1. All admissions will contain the transaction code of “A” or “O”

“A” is a patient entered thru’ our ADM program—this patient has no discharge date yet; this could be an inpatient, observation patient or ER patient.

“O” is entered thru OPADM program—these are outpatients who have come in for lab work, X-Rays or some other outpatient service; they will have admission and discharge dates and times on the admission record.

2. Any updates to the bed/room, physician, and medical service will cross with a “U” transaction record.
3. If a patient is discharged, the transaction code will be a “D” and the discharge date and time will be in the record. The time is a 6 digit field (HHMMSS) that starts in position 94 and the date is a 6 digit field (MMDDYY) in position 81.

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Patient Charges

Field Description	Field Type/Length	Starting Field Position	Note:
Account Number			1
Medical Record #	7 Digits, numeric, right-just, zero-filled	1	
Admission Counter	3 Digits, numeric, right-just, zero-filled	8	
Spaces	14 Characters	11	
Patient Name	30 Characters (LASTNAME, FIRSTNAME format)	25	
Transaction Date	8 Digits, numeric (MMDDCCYY format)	55	
Spaces	7 Characters	63	
Item Number	12 Characters, left-justified	70	2
Spaces	25 Characters	82	
Quantity Billed	4 Digit integer, right-just, zero-filled	107	
Quantity Sign	1 Character ('+' = charge, '-' = credit)	111	
Charge	7 Character field	112	3
Spaces	21 Characters	119	
Notes:			
1	The CSS Account Number is composed of the 7 digit Medical Record Number and the 3 digit Admission Counter which is unique for the current patient stay		
2	This is the Inventory Item Number on the CSS financial system		
3	Composed of 4 digits for the dollar amount, a decimal point and 2 digits for the decimal places (ex. 9999.99) - This field is optional since the actual price will be obtained from the Inventory file using the above Item Number)		

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Implementation

Installation

Responsibility for the physical connection of the two servers will vary depending on the needs of the client. In most situations the following guidelines should be followed.

- CSS New Installation – where the installation is part of a facility wide CSS installation and the Pyxis server is already in place, CSS will take the lead role in connectivity between the servers.
- Pyxis New Installation – where the installation is taking place in a facility that already utilizes the CSS facility wide system, Pyxis should take the lead role in connectivity between the servers. Where CSS onsite installation services are required, those services are billable based on CSS standard rates.

CSS Software Installation will be coordinated by CSS support staff using the remote support connection. As a reference, the current CSS versions of the programs involved are listed below:

- | | |
|-----------------------------------|----------------------|
| ➤ Pharmacy Charge Program (Pyxis) | Pharcrmc version 5.3 |
| ➤ Census Interface (Pyxis) | Pyxpatup version 4.5 |

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Training

CSS will provide telephone support during the implementation process to ensure that client staff understands how the interface works. This training will consist of 2 conference call sessions – one dedicated to the census process and one dedicated to the patient charge process. Where CSS onsite training services are required, those services are billable based on CSS standard rates.

Modifications

CSS will modify our standard interface provided that the request is made in writing and approved by all parties affected prior to the start of coding. Modifications will be billable based on CSS standard rates – minimum charge \$480 per change. In addition, monthly support fees will increase for recurring support services related to customized interfaces.