

Paperless Workflow and EMR Integration

Chris Joyce, President
Logical Progression
cjoyce@logicalink.com
(919) 629-2294



About Logical Progression...

BACKGROUND

- Headquartered in Cary, NC
- Over 20 years of healthcare and electronic forms experience
- Specializing in mobile data collection and interfacing for healthcare
- Mi-Co Development Partner

About Logical Progression...

EXPERIENCE

- Worked with all major HIS vendors
 - MEDITECH, McKesson, Siemens, QuadraMed, Cerner, IDX
- Integrated solutions with several EMRs
 - ChartMaxx, Siemens Document Imaging, Eclipsys Sunrise Clinical, Horizon Patient Folder, MEDITECH ITS, AllScripts TouchWorks

Motivations

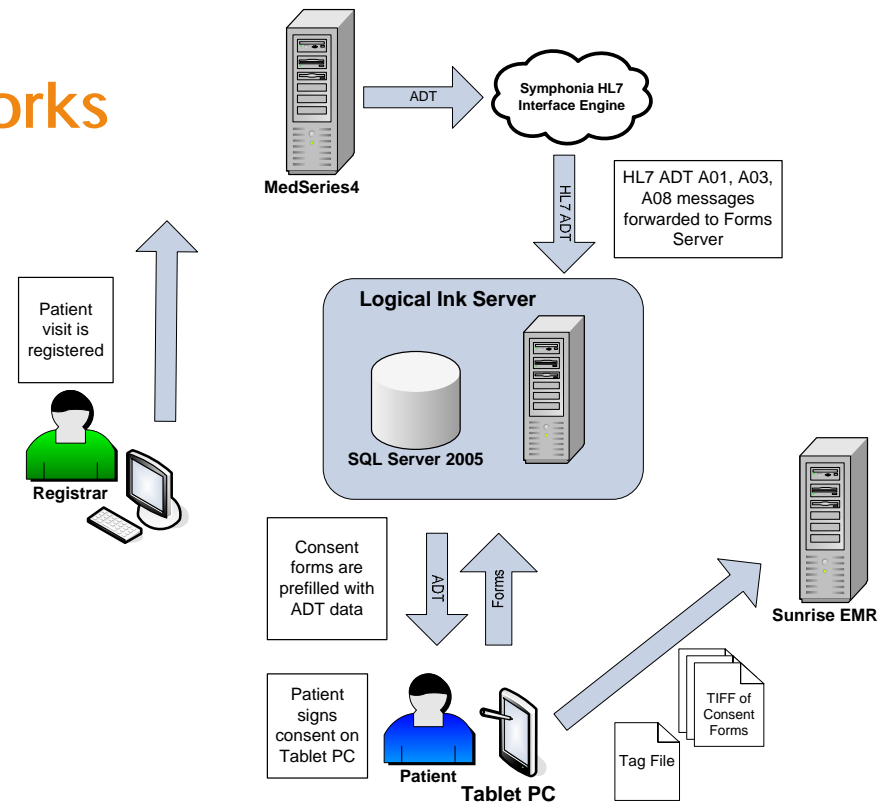
WHY ELIMINATE PAPER?

- Duplicate data entry introduces errors
“Paper has always been a fast and easy way to collect data, but paper can’t tell you when you’ve made a mistake.”
- Scanning and indexing is time consuming
- Delayed validation, reporting and analysis
- Storage and archival



Integration Overview

How It Works



Integration Overview

HL7 & EMR Integration

- Industry standard for data interchange

```
MSH|^~\&|MIFORMS^1^T|||200704201528||ORU^R01|A|P|2.2|B||AL|NE
PID|1||M000000051|||K00000000227|
OBR|1||DEPROG200704201528|DIABETICED|||200704201528|200704201528|||Patient
Diagnosis|||1^Jones^William^P^Jr^Dr|||DIABETED|DEPROG|||DIABETED|D|||CPJ|||CJJ
OBX|1|FT|||\ZU\Date:\N\ 04/20/07~\ZU\Time:\N\ 12:22~\ZU\Encounter:\N\ Phone interaction~~Progress Notes|
```

- Tag file specification

```
E:\Program Files\Siemens\EDI\ENVIRONMENT\hrr\OLCReports\487694P.TIF
DOCUMENT DATE: 09/08/2002
ACCOUNT NUMBER: 40231441
ADMIT DATE: 07/28/2007
END OF REPORT ----- REPORT NAME=ABN HOSP=XX REGION=YY
```

Our Solution

KEY FEATURES

- Prefill your forms via HL7
- Dynamically build electronic charts based on patient data (e.g., admit type, language, service)
- Create powerful forms with dynamic picklists, image annotation and electronic signature
- Output “electronic paper” versions of your forms to any EMR
- Export your collected data to database or HL7
- Complete audit trail for HIPAA and FDA Part 11 compliance



Benefits

WHY TABLET PC AND E-FORMS?

- Eliminate paper
- Experience the same ease of adoption and mobility as paper
- Eliminate errors associated with duplicate data entry and scanning - seamless integration with EMR
- Validate data at the point of capture
- Get “cleaner” data more quickly and easily



Case Studies

Kershaw County Medical Center



- 120-bed acute care facility, 88-bed long-term facility, health resource center and home health/hospice facility serving Camden, SC
- Diabetes Education
- Mi-Forms 6.0 integration with MEDITECH ITS
- Logical Progression's HL7 and MEDITECH Reporting modules

Alamance Regional Medical Center



- 230-bed community hospital serving Triad community
- Electronic Consent
- Logical Ink integration with Siemens MedSeries 4 and Eclipsys Sunrise Clinical
- Logical Progression's HL7 and EMR modules

Lessons Learned

- HL7 can be tricky – not everyone follows the spec
- Be careful when generating TIFF files
- Must be ready for the enterprise (flexibility and scalability)
- Mi-Forms SDK

Tablet PC Partners



lenovo



Motion
Computing®

LifeBook® T4215 Notebook PC



FUJITSU



tabletkiosk
Taking the PC where it's never gone before.



socket
The Mobile Connection



Questions?

Chris Joyce, President

Logical Progression

cjoyce@logicalink.com

(919) 629-2294
