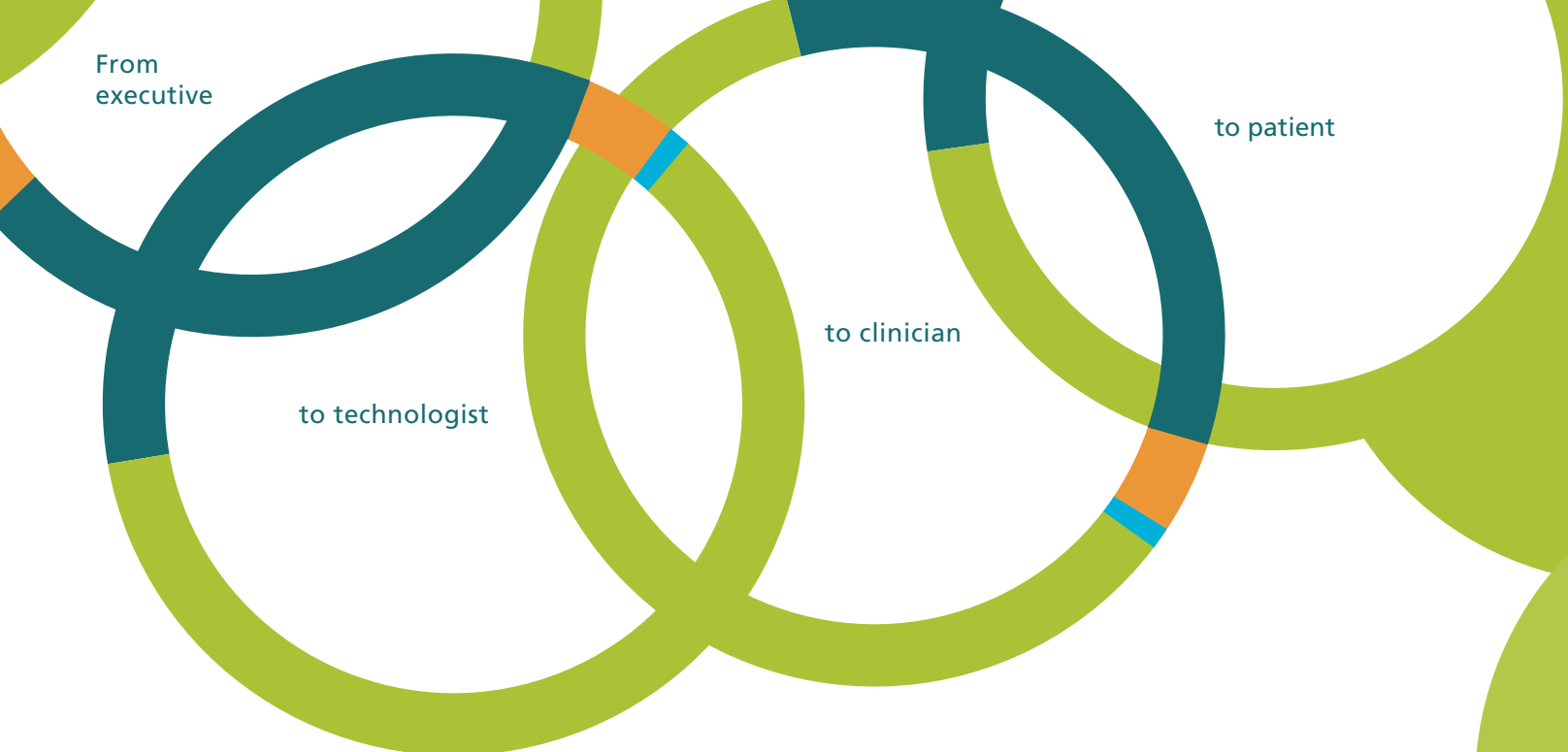


Carefx improves healthcare performance by connecting clinicians with the information they need—when, where, and how they need it.



The inability to have the right data at the right time in the right place destroys the vital link between physicians and the information they need to make life-changing decisions. Large quantities of patient data are isolated and ineffective—locked in applications that don't speak to one another, mired behind multiple logins, and presented in ways that aren't efficient, intuitive or effective.

to patient

to clinician

to technologist

In this disjointed world, everyone suffers—from the exam room to the OR to the CEO's office—as access limitations keep physicians from being on point at the point of decision, as technological shortfalls make recruiting and retaining the best and brightest more difficult, and as facilities lose collaborative power as information falls through the cracks. Lack of interoperability translates to lost ROI, as current IT investments can't be used to their best advantage, and the breakdown culminates in lost opportunities to advance the quality and safety of patient care.

Fusionfx closes the gaps in information for everyone along the healthcare spectrum, with service-oriented solutions that radically streamline workflow and improve both outcomes and organizational performance.

**The CEO needs an answer and needs it now.**

Market share is waning, competition threatening, and clinician frustration with unintuitive legacy systems growing. Information gaps mean a loss of productivity or worse, potential for serious errors in patient care. Change is necessary—but too much of a shake-up isn't the answer. **Carefx provides a time-to-solution that's measured in weeks, not years**, a suite of smart answers to help meet the interoperability requirements of Washington's Stimulus Package and a platform that scales easily to meet future needs.

**The CFO wants to know that the money's well-spent.**

Investments in single-vendor solutions haven't solved every problem and neither has best-of-breed but a solution that "bridges the gaps" can't be code for "rip and replace." Streamlining revenue-related processes, effectively managing reimbursement risk and keeping liability low—at the same time—would be the best of all worlds. Starting over would be a catastrophe. **Carefx leverages existing technology investments, making the most of legacy systems**, improving ineffective workflows, bottom lines, and boosting competitiveness.

**The CIO must find a solution that's as painless as possible.**

Seamless interoperability, longevity, and functionality that won't send users to the help desk is sorely needed. But change has to happen quickly—while sustaining the vital balance of care and commerce. **Carefx solutions utilize existing infrastructure**, and install quickly, non-disruptively, without placing extra burden on care providers or compromising compliance, privacy or security.

**The CMIO needs to create connections.**

Concern for attracting new physicians with new technologies conflicts with keeping current ones happy and productive. Quality of patient care comes alongside worries about HIT adoption. And empowering patients to understand their medical conditions and take control of their health is a major goal. **Carefx closes the gaps**, between technology, physicians and patients, and between all the disparate sets of information everyone needs to do their jobs well.

**The Compliance Officer must protect patient privacy.**

As information moves from one department, facility, or information exchange to another, security is a huge concern. **Carefx never moves or endangers data**, simply aggregating patient-centric information. Because it's accessed from a single point of entry at the end-user level, control over who's seen what is imminently available. Further, data physically stays put—source databases never change, helping institutions avoid ownership snares over private information being collected and combined.

**The Physician just wants to get back to work.**

No one gets into medicine to chase data and file paperwork. The process should be faster, the interface more intuitive, and the whole exercise more beneficial to everyone involved. **Carefx removes laborious navigation through disconnected data**, simplifying information access to a one-login, single patient selection proposition with a unified view.

**The Patient needs to be in-the-know.**

Intimidated by complex diagnoses and a perceived lack of control, knowledge makes an effective cure-all. **Carefx connects the dots in patient care**, bridging data silos to ensure physicians have the information they need, when they need it, and patients gain an understanding of and participation in their personal health.



With a variety of benefits across the healthcare spectrum, Fusionfx is a solution suite that covers all the bases—aggregating patient information across existing systems and delivering it in a single, clear, clinically relevant view to physicians at the point of care or point of decision.

**It's quick to implement.**

With Fusionfx, facilities can be up and running in as little as 90 days. And because Fusionfx works with (but doesn't replace) your current applications and infrastructure, it won't burden care providers or disrupt process or quality of care.

**It's safe and secure.**

Because Fusionfx doesn't copy or move your data, the security and integrity of your essential patient information never changes. Whether sharing data within your institution or externally with other care providers or business partners, Fusionfx is built using industry standards that assure every bit of your vital information will be presented securely and audited appropriately. The result: easy end-to-end governance and certain peace of mind.

**It's cost-effective.**

Fusionfx protects your IT investments by embracing what works about your current information systems and optimizing what doesn't, connecting your disparate applications to allow real-time interaction across existing systems and platforms. Rather than creating a new data repository or replacing your systems with an entirely new solution, Fusionfx simply works with what you've got, pulling the pieces together to form a clear clinical picture.

**It's intuitive.**

With Single Sign-On and single patient selection, physicians can access just the right information—admitting last month, to radiology last week, to this exam room this very moment—virtually connecting disparate data and applications, all without redundant searches, frustration, and wasted time that could be spent with the patient. Fusionfx expedites the care process by creating streamlined workflows that support an individual's cognitive process.

**It's tailor-made.**

Just as every patient requires personalized care, every physician needs personalized workflow to make it happen. Fusionfx makes delivery of your clinical data context-sensitive, clinically relevant and imminently available at the point of decision. Above all, it's personalized—presenting only the data they need, in the way they need to see it. It's a simple thing with big results that erases the need to dig for information, streamlines workflow and, most importantly, improves patient outcomes.

**It's flexible.**

Instead of a hard-wired system that can never change or grow, Fusionfx is malleable and interoperable. Through its Service Oriented Architecture (SOA), Fusionfx minimizes long-term IT costs by offering a solution that can change as quickly as the healthcare environment does. This is change without great change—more evolutionary than revolutionary.

**It's scalable.**

As big or as small as your needs dictate, Fusionfx can serve on any scale, from single departments, to the entire hospital, to multi-facility organizations and HIEs, incorporating different systems, data, and usage policies to advance how healthcare is delivered across the continuum.

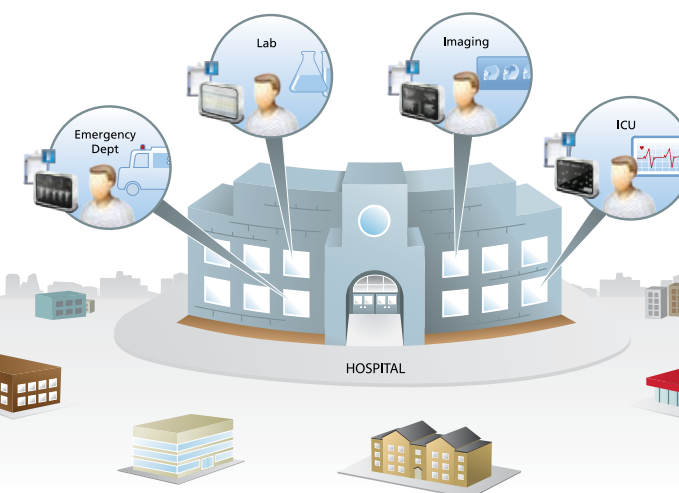
**It's where you are.**

At the desktop, remotely with VDI, through portals and mobile devices, Fusionfx presents information in a standard but secure web browser. Fusionfx offers doctors the freedom to get the information they need, when they need it—at home, on the road, at the nurse's station, or even via mobile device—instead of only inside hospital walls. The result is more timely assessment that's less intrusive to physician's lives, and more beneficial to patients.

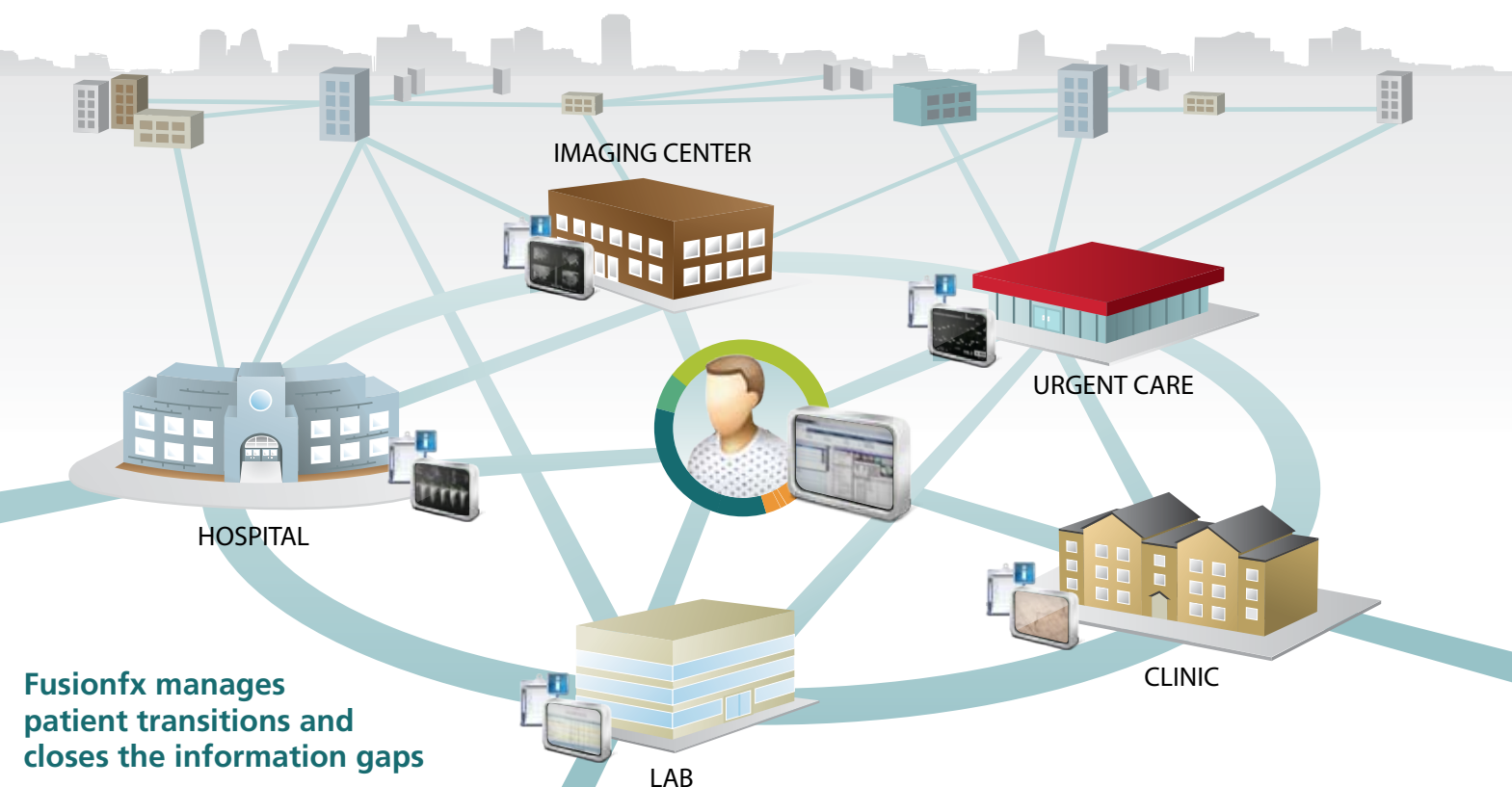
# Close the Gaps

Fusionfx transforms isolated applications into connected information delivery systems, transforms disparate data into actionable information, and then makes that information available to clinicians, on-demand, in the way they need it and in the way it is best understood.

From systems to departments to hospitals to delivery networks to health information exchanges



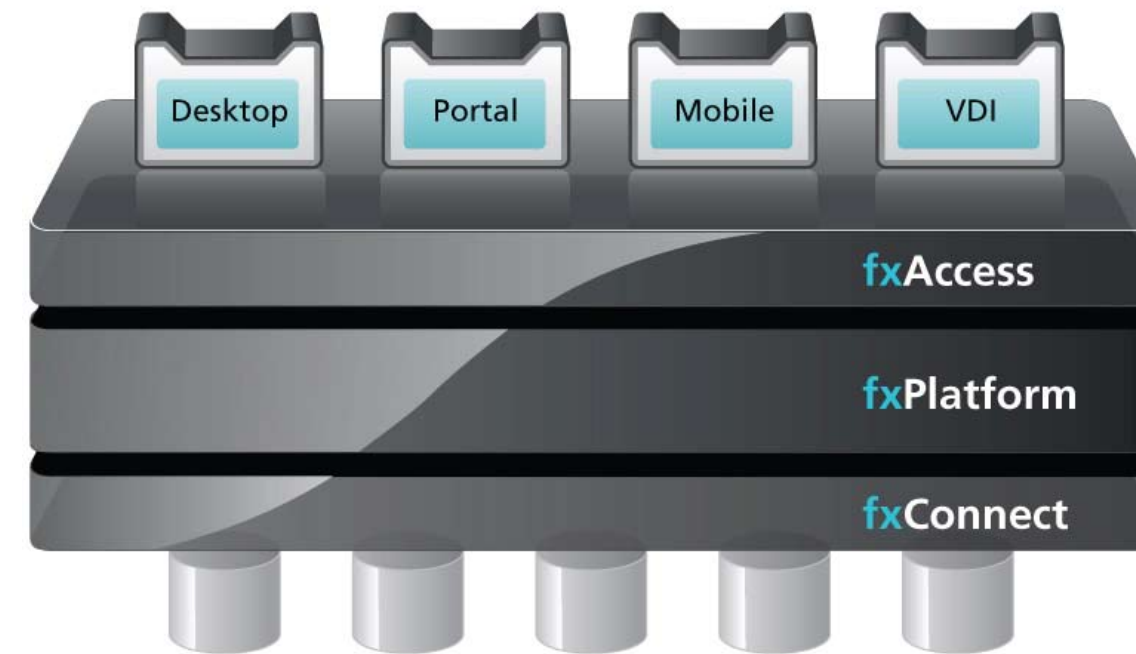
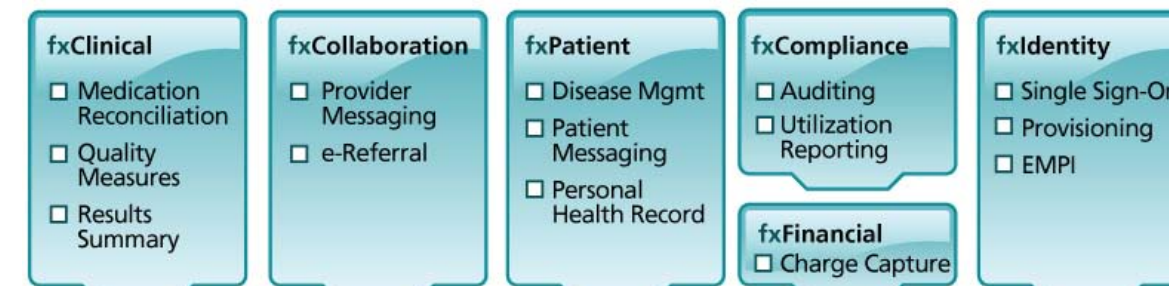
Fusionfx is an interoperable, intuitive solution suite that incorporates the latest standards-based technologies and industry best practices to give you all the pieces you'll ever need to streamline retrieval, access, and usage of your patient information. Through Service Oriented Architecture, an intelligent workflow automation engine, and our unique, varied options for secure data sharing, Fusionfx not only connects your system's essential data, but connects your institution's human assets as well—administrator to physician to patient, department to department, and your facility to other networks and information exchanges.



Fusionfx manages patient transitions and closes the information gaps

### Fusionfx Solution Suite

USER EXPERIENCE



Your Existing Infrastructure

BACKGROUND

### Smart Interoperability Meets Seamless Implementation

#### Composite Applications

The Fusionfx solution suite offers a series of Composite Applications to address very specific workflow challenges. These applications interoperate with and aggregate data from your existing information systems to simplify workflow and offer physicians the actionable data needed to make key clinical decisions.

#### fxAccess

The user-facing layer, fxAccess gives disconnected data a face that's physician-friendly—collective, patient-relevant, and at the point of care or decision—through numerous access points. At the desktop, users can access the native applications they're already familiar with, but with cross-application data contextually aligned. Within a portal, relevant patient data from a series of applications is presented in a single, synchronized, user-centric view. And finally, care providers can have access to critical patient data whenever and wherever they desire through their mobile devices.

#### fxPlatform

Fusionfx's integration layer, fxPlatform, manages how your data is aggregated, shared and displayed with other solutions. It includes tools for context-enabling noncompliant applications so that all data is synchronized around a single patient. It features comprehensive auditing for access and forensics and simple to configure interfaces for Single Sign-On, provisioning, enterprise master patient indexing, and decision support—all compliant with industry standards. But most importantly, it's future-proof. Through its collection of web services, fxPlatform allows for change without the expense of removing and replacing systems. As your needs evolve and new systems become a part of your application portfolio, fxPlatform's web services let you easily integrate data and workflows, helping you focus on the process that you are trying to improve, not the connections that make the process possible.

#### fxConnect

The application-facing layer of the Fusionfx suite, fxConnect allows your disparate systems (from mainstream to niche to homegrown) to cooperate without changing them, replacing them, or even moving the data housed in them. It works like this: the fxConnect library contains hundreds of application connectors that plug clinical applications into an HL7 standards-based desktop framework without modifying the native application. Via fxConnect, Fusionfx displays synchronized patient data from all sources in real time. As a result, the user's experience and workflow improve noticeably.

From department

to organization

to network

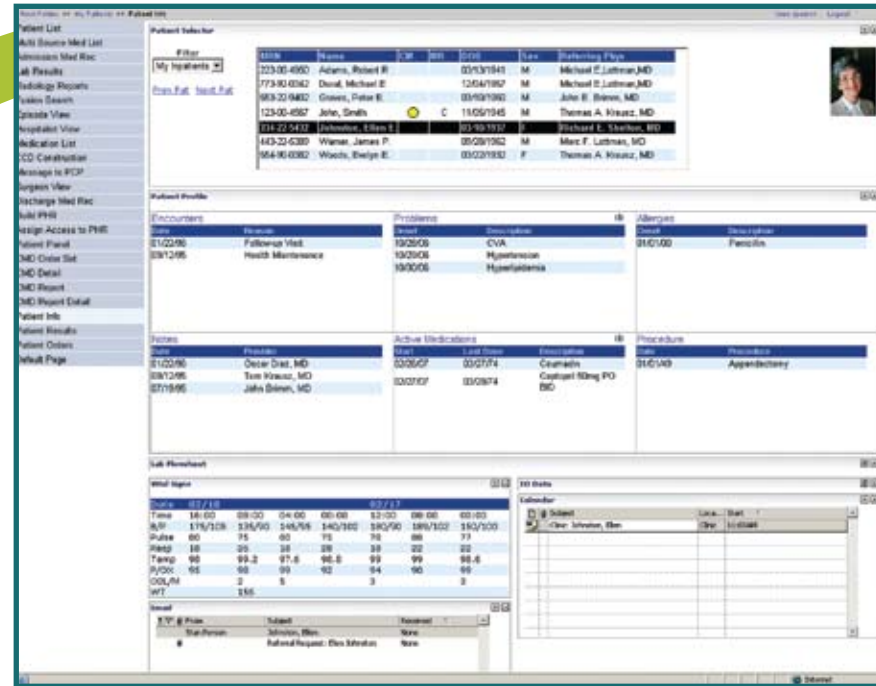
to everywhere

By drawing select functionality from several different sources and combining multiple, existing functions into new applications, Fusionfx's composite applications leverage enterprise and enterprise-ready sources of information to support informed clinical decision making and streamlined care delivery.

The screenshot displays the Fusionfx clinical application interface for a patient named Irma Heart. The interface is organized into several panels:

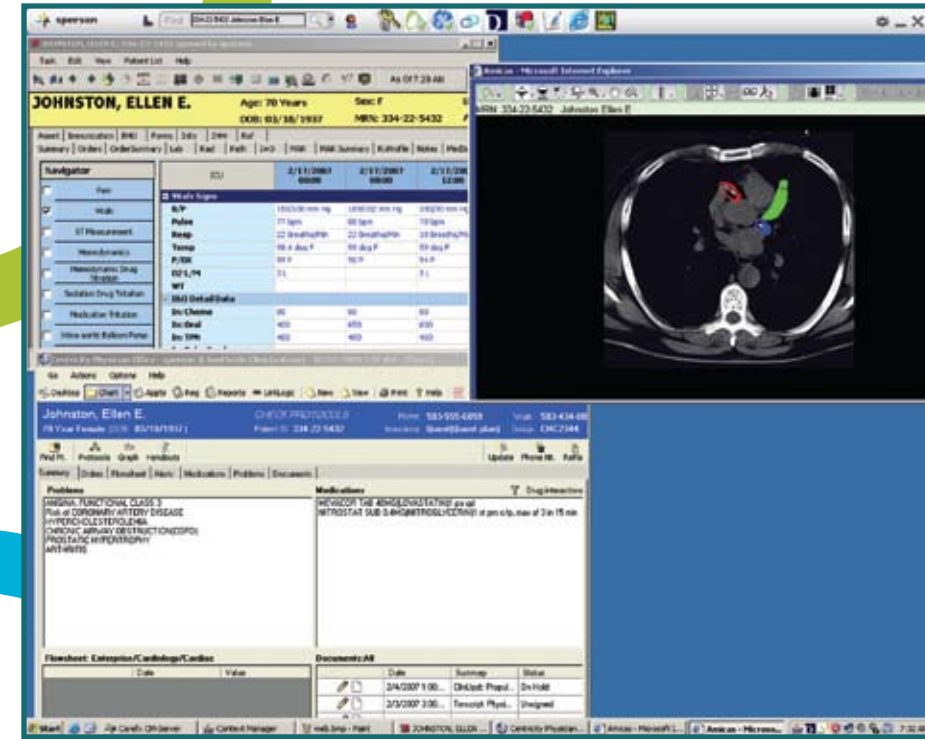
- Patient Demographics:** Shows patient name (Heart, Irma), age (63 years), MRN (123-00-4333), gender (Female), and DOB (11/27/1945).
- Drug List - Rehab:** Includes a filter for "Range of fill data to retrieve" (set to 1 year) and a table of medication fills with columns for Drug Name, Qty, Days, Prescriber, Pharm, and Source.
- Drug List - PowerChart:** Shows a table of current medications with columns for Drug, Dosing, Last Dose, Source, and Status.
- Drug List - Fusion Med History:** Shows a table of historical medication orders with columns for Drug, Dosing, and Status.
- Other Panels:** Includes "Allergies - PowerChart" with a table of allergies (Substance, Category, Type, Reaction Status, updated By) and "Pre-Admission Medication List" with checkboxes for "Patient not taking home meds" and "PAML is complete".

Every patient is different. So is every organization. For this reason, Fusionfx is comprised of a portfolio of technological and clinical tools that can be assembled into complete, tailor-made solutions designed to meet virtually any workflow imaginable. And the best thing is, it all begins with the systems your organization already has in place.



### Clinical Portal

Fusionfx makes patient care an anywhere, anytime proposition. It delivers a robust and flexible solution for workflow-oriented clinical portals using JSR168, 268 portlet standards and SOA. And with a library of over 300 portlets, a portal can be rapidly built to meet the unique workflow needs of an organization. Additionally, the Fusionfx technology platform includes integrated Context Management and Single Sign-On functionality to provide seamless end-user access to native applications.



### Clinical Desktop

Fusionfx improves clinical workflow by providing a managed and consistent desktop experience. Care providers are given fast access to synchronized information from authorized clinical applications via Fusionfx's Single Sign-On and Context Management technologies. The solution leverages existing systems but improves the user experience in a desktop environment.



## Fusionfx uses the latest standards-based technologies to help you build the optimal framework for the future.

- **Context Management**—Supporting the cognitive functions of clinicians, Fusionfx allows a user to select a patient in one application and automatically remain with that patient’s records when entering other applications. Eliminating the need to re-select the patient in subsequent applications, Context Management saves time and is a virtual safety net for preventing errors. The further the user drills into an application (e.g., test, result, diagnosis, etc.) all context-aware applications drill-down as well, in complete alignment with the user’s requests.
- **Data Federation**—Fusionfx joins data from heterogeneous sources, leaving the data in place—without creating data redundancy. The source data remains under the control of the source systems and is pulled on-demand for federated access—with Fusionfx, via a clinical portal.
- **Application Automation**—Through our patent-pending application extension technology, Fusionfx links with your native applications, watches them for changes, then communicates those changes to the Context Manager to facilitate the updating of context-specific information (by patient, by encounter, and by user, for example)—all without requiring any modification of the target application.
- **Service Oriented Architecture (SOA)**—Endlessly changeable as your institution grows and evolves, SOA allows your data and existing systems to be used, reused, and combined in new ways to address changing tactical and strategic issues. It’s all about cost, speed and security: SOA provides a means to leverage all your existing technologies and allows them to interoperate by creating a common access point for disparate data sources. It performs faster than traditional centralized data models because it is highly distributed, doesn’t require data synchronization, and relies on the integrity of the data source at the point of care. All of this translates to faster software development, quicker speed to solution, and consistency.
- **Federated Identity and Access Control**—The vision of a health record spanning multiple healthcare providers requires identification and control of users, both within and without the healthcare institution. Using a federated identity solution eliminates the need to provision every user in the systems that will participate in a Healthcare Information Exchange. Fusionfx provides robust, standards-based (SAML) tools that federate identity and access control across a multitude of institutions and usage policies that can be modified easily to control security levels extended to external sources.
- **Federated Patient Record Access Control**—When data from multiple sources is aggregated or shared between institutions, determining access control rules can become quite complex. Fusionfx simplifies the process by gathering patient and provider relationships across all participating systems and managing how those identities and roles are captured and correlated. Your organization’s privacy officer can build policies for allowing or denying access to protected information. Fusionfx applies these policies in real-time to control where, how, and to whom access is granted.
- **Secure Messaging Framework**—Fusionfx offers a secured messaging framework that sends data reliably and consistently between systems and platforms. Using industry-standard data exchange formats, security protocols, and multi-protocol message brokers, Fusionfx ensures that content is transmitted securely and audited appropriately to provide end-to-end governance on how data is shared both internally and externally.

### **About Carefx Corporation**

Carefx supports healthcare organizations in achieving their vision of advancing the quality and safety of patient care delivery through its Fusionfx solution suite. Fusionfx streamlines and simplifies clinical and business workflow and connects care providers to the information they need, where and when they need it. By managing care transitions and information gaps between diverse departments, systems and facilities, Fusionfx delivers crucial patient information with speed, efficiency, and logic.

Carefx supports more than 600 hospitals, health systems, regional health information organizations (RHIOs), and health information exchanges (HIEs) across North America and Europe.

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