

## **Field2Base Specifications**

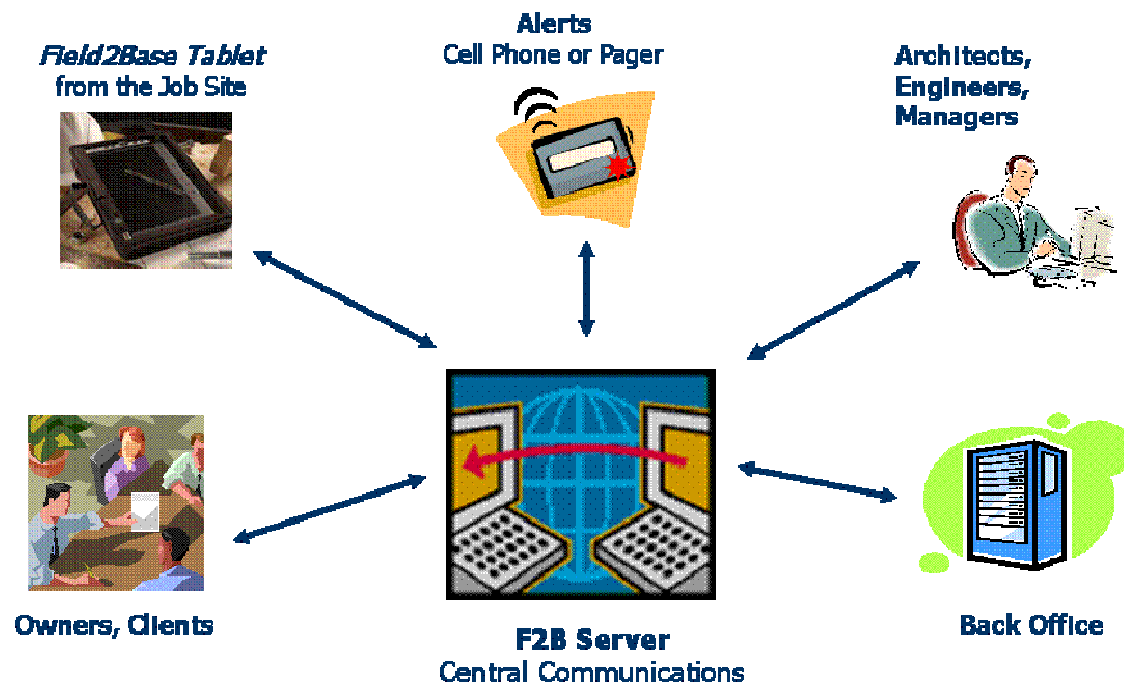
Field2Base, Inc. (F2B) sells software, hardware and operates a secure communications service, automating the flow of information to and from field locations. **Field2Base**, **Forms2Base** and the **Field2Base server** are the cornerstones of the F2B solution (see diagram on following page).

**Field2Base** is the flagship product, running on Tablet PCs. Field2Base captures many types of information through sketches, annotated CADs, annotated photos, and user supplied files, to describe a specific field situation. This field situation is described by the Tablet PC user, who, upon completion of documentation, immediately transmits the story via wireless communications to the home office and/or other individuals who need access to that information to make a quick, informed decision. This transmission of information is delivered to the recipient as an email attachment, which means no additional software or hardware is required by the recipient to receive this transmission from the field.

**Forms2Base** is a forms automation and communication product offering from F2B. This product enables paper or digital forms to be automated and completed from a Tablet PC. The completed form may be transmitted wirelessly to desktop PCs for immediate use as an email attachment or passed to an enterprise “back-end” system using an industry standard XML interface. Forms2Base is included in the software license for the Field2Base product but may also be licensed as a stand-alone product, for companies who only need forms processing capabilities. The communications for Forms2Base is embedded in the forms document, easing transmission, like all other documents from Field2Base.

The **Field2Base server** is the central hub for all communications between the Tablet PCs and the Internet. The server maintains the data-base with configuration data for communication with the Tablet PCs. With this product, the data is segregated by user and project and access is restricted to authorized users only. Desktop computers connected to the Internet can be used to access any data on the server using a standard browser such as Internet Explorer. All communications activity and copies of the documents sent to and from the Tablet PCs are maintained on the server, providing both a communications trail and Tablet back-up for the Tablet user should the hardware become damaged and rendered unusable.

## The Field2Base Network



### Network/ Communications Server

The Field2Bases network architecture satisfies the connectivity and communications needs of field personnel (Project Engineers, Superintendents, Field Sales, Inspectors, etc.) to office personnel such as Architects, Engineers, Project Managers, Suppliers, and Owners.

The server acts as the central hub for all communication requirements of the Field2Base product, as well as future upgrades and additional product offerings by Field2Base.

Core Features of the Field2Base Architecture:

- **Multiple Transmission Mediums** – Field2Base allows customers on the network to communicate with anyone, regardless of the recipient's technology – or lack thereof. Although all internal messaging on the network is handled by a proprietary format, the Field2Base server is able to convert and route messages to non-users by such mediums as standard email or fax.

- **Message Formatting and Conversion** – Field2Base is able to receive messages from the Field2Base client and format them correctly for the intended recipient. This includes document conversion (from one CAD format to another) as well as formatting to ensure the recipient is able to view all documents properly.
- **Document Management and Control** – The Field2Base server acts as a clearinghouse and central repository for all documents. As a central document repository, the Field2Base server guarantees that all network customers automatically receive the latest revision of all documentation, while maintaining an archive of previous versions.
- **Guaranteed Delivery** – Using sophisticated message queuing technology, the Field2Base server is able to guarantee that the intended recipient receives all messages. Should the receiver's network, email or other communications medium be down, the Field2Base server will continue to retry until the message is successfully delivered
- **Complete Logging of All Transactions** – The Field2Base server maintains a complete and detailed log of all transactions on the network. Furthermore, it is able to date and time stamp these transactions, and keep a secured record of the data. This allows all users to maintain a complete audit trail by an independent 3<sup>rd</sup> party.
- **Security** – The Field2Base server uses strong encryption technology to ensure that all messages remain secure, and private. The security is an end-to-end solution, guaranteeing that all traffic is only accessible by the intended parties.
- **Mobile Alerts** – The Field2Base server is able to send alert messages to cell phones, pagers, and wireless PDA devices. These alert messages can be programmed to occur for certain events, or can be manually sent by Field2Base users when they have a high-priority situation.
- **Remote Software Deployment** – The Field2Base server can push out new software to the client machines across the network. This new software can be in the form of upgrades, patches, additional functionality, and completely new products.
- **Standardized Connectivity** – The Field2Base server architecture has been designed to rapidly integrate with new network partners, such as suppliers and manufacturers. Additionally, all messaging can be converted into standardized data formats such as XML or ODBC to allow for back end integration into Financial Systems, Sales & Distribution and Enterprise Resource Planning (ERP) systems such as SAP, JD Edwards, and PeopleSoft.
- **Scalability** – The Field2Base network is intended for substantial growth as more customers realize the immediate ROI with Field2Base. As such, Field2Base makes use of distributed technologies allowing for effortless growth with the addition of hardware. By clustering the Field2Base servers, the network can be expanded as needed.

- **Reliability** – The Field2Base server was designed from the start as a robust, mission-critical application. Both the software and hardware are built with failover capabilities, and extensive, automated backup and restoration of data. The result is an enterprise grade application with maximum uptime, and 24/7 availability.

## Field2Base

The Field2Base client application operates on a Tablet PC platform, which has been ruggedized for field and job site use. The Tablet PC has sophisticated communications built in for use on either Wi-Fi (802.11) or digital cellular networks.

F2B software is offered on a subscription basis, paid monthly. The standard pricing for Field2Base is determined by product selection, quantity and duration of the agreement.

Core Features of the Field2Base Application:

- **Ease of Use** – The core design goal for the Field2Base application was usability. The underlying assumption is that the end-user may have little or no prior computer experience. Even a power user of computers has a need for ease of use while in a field environment. The system is designed with these limitations in mind, and requires minimum training for field users.
- **Robust, Job Site Ready System** – Field2Base realizes that for the system to be a success, it must meet the rigors of real world use. The Field2Base system is designed to be quick, intuitive, and always ready for use.
- **Complete Communication System** – The Field2Base system is a complete job-site communications package, giving the user easy and instant access to email, FAX, and document sharing in one portable device.
- **CAD Viewing and Annotation** – The Field2Base application can display, and allow document annotation on most of the popular CAD formats. With the tremendous storage capacity of the Tablet PC, the user can easily carry around digital blueprints for all of their projects. The system also maintains the latest versions automatically for the user, and notifies them of any changes or updates as they are received.
- **Forms and Report Processing** – The construction industry requires numerous reports and forms to be processed on a daily basis. These forms range from government regulated documents to daily job site reports. Field2Base provides digital versions of these forms, and pre-fills repetitive data for the user, saving substantial time on a daily basis. When

- the user is done completing the forms, they are able to transmit the data from any location on the jobsite.
- **Product Ordering** – In addition to forms used for reporting, the system can handle product order forms allowing the user to easily order product from the field. With the powerful logging system of Field2Base, a detailed audit trail is maintained, so all orders can be easily verified.
  - **Multiple Document Support** – In addition to CAD documents, the Field2Base system allows the user to view and communicate many additional document formats such as MS Excel, MS Word, and Adobe Acrobat.
  - **Digital Camera** – The Field2Base system incorporates a digital camera system that is capable of high-resolution still photographs or full motion video. The camera system is fully integrated with the software, allowing ‘point and click’ ease of use. The digital images can be annotated and sent over the network with the same simple interface as other documents.
  - **Security** – As security is always a concern when working in digital documents, the Field2Base system has multiple levels of security to ensure that the data is only accessible by approved users. Basic login security is available in the application, with biometric fingerprint verification as an option. The Field2Base software encrypts and compresses all data before versions automatically for the user, and notifies them of any changes or updates as they are received.

## **Forms2Base**

Forms2Base is the latest product offering from F2B that enables automation of paper or digital forms, providing the ability to complete them from the Tablet PC. The completed form may be transmitted wirelessly to desktop PCs as an email attachment or passed to enterprise back-end systems for automated data entry using an industry standard XML interface.

Forms2Base software is offered on a subscription basis just like the Field2Base flagship product where the user pays a monthly fee the software and communications service.

Core Features of the Forms2Base Application include:

- **Forms2Base Designer** – The Forms2Base Designer was developed to allow the user to create electronic forms by scanning existing paper forms into a desktop computer, and then adding characteristics for each field. This includes fields for printed text, numeric input, alpha-numeric input, and calculated fields. The electronic forms are then pushed out to the Tablet PCs, via the FieldLink server. Users who have basic computer skills with MS Word and MS Excel can easily turn their paper forms into

“Smart Forms” that take full advantage of the hand writing recognition capability of the Tablets.

Key features of the Forms2Base Designer include:

- Validation Input - Using high/low limits or specific values
  - Field Calculations - Using macros similar to MS Excel
  - Attribute Setting - For each field similar to MS Word
  - Pop-up Functions – For date and calendar functions
  - Pop-up Help Functions - For form fields
  - XML Mapping – Define output for XML interface
  - Routing Information Set-up – Such as email addresses
  - Field Definition – Process or maintain this field in ink
  - Multi-page Form Support – Forms are not limited to one page
- **Use of Existing Forms** – One of the key considerations given to converting paper forms to digital forms, is the ability to allow the customer to use existing paper forms as they exist today. Existing forms can be scanned into the Forms2Base Designer and pushed out to the Tablets, where the user simply completes the form on the tablet and sends it to the home office via the wireless network. The form is sent as an email attachment. If certain fields on the form need to be converted using hand write recognition, the customer simply uses the Forms2Base Designer to define those fields on the form which has been scanned into the computer, and then sends the electronic version of the form out to the Tablets.
  - **Embedded Communications** – The same wireless communications used in the Field2Base application is embedded into the Forms2Base product. This allows the field user to simply fill out the form and hit the “Send” button on the Tablet. . The background communications processor takes care of sending the form to the FieldLink server, where it is logged into the database and forwarded to the intended recipients. The same data encryption and compression algorithms, described in the Field2Base section, are used to provide security and fail-safe transmission of the document.
  - **Digital Camera** – The Form2Base application also incorporates a digital camera that is capable of high-resolution still photographs. The camera is fully integrated with the software, allowing ‘point and click’ ease of use. The digital images are added to the form and can be annotated as defined in the section on Field2Base.
  - **Security** – The same security provisions are included in Forms2Base as defined in the section above on Field2Base.