



SiD Secure Collection

PRODUCT OVERVIEW

Release No: 1.4

Release Date: January 2011



For further information

Email: info@superstructuregroup.com

Website: www.superstructuregroup.com

UK Office

Superstructure Group Limited
Ash House, Fairfield Avenue
Staines, Middlesex TW18 4AB
United Kingdom
Ph +44 870 803 2579
Fax +44 1784 224 245

NZ Office

Superstructure Group A.P. Limited
Level 1, 19 Tory Street
P O Box 19127, Courtenay Place
Wellington, New Zealand
Ph +64 4 385 0001
Fax +64 4 381 3934

Copyright © 2011 Superstructure Group Limited

All rights reserved

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of Superstructure Group Limited, the copyright holder.

This document is the property of Superstructure Group Limited and may not be disclosed to any third party or copied without consent.

Table of Contents

Overview	1
What is SiD Secure Collection?	1
Product Set	2
Benefits of SiD Secure Collection	2
Product Features	3
Automated Intelligence Capture	3
Operate Remote and Disconnected	3
Data-based validation	4
Security	4
Product Modules	5
SiD Smart Forms	6
SiD Smart Form Designer	7
SiD Import	8
Technology Architecture	9
Application Server	10
Technology	10
Scalability	11

Overview

Superstructure Group's Secure Collection application provides a new dimension to the collection of intelligence. The application automates the extraction of intelligence from information and provides remote connectivity for centralised applications, enhancing their area of application, increasing their level of functionality and enabling core applications to address a wider market.

Organisations can achieve intelligent and secure information capture in shorter timeframes and greater accuracy with much less effort and involvement.

What is SiD Secure Collection?

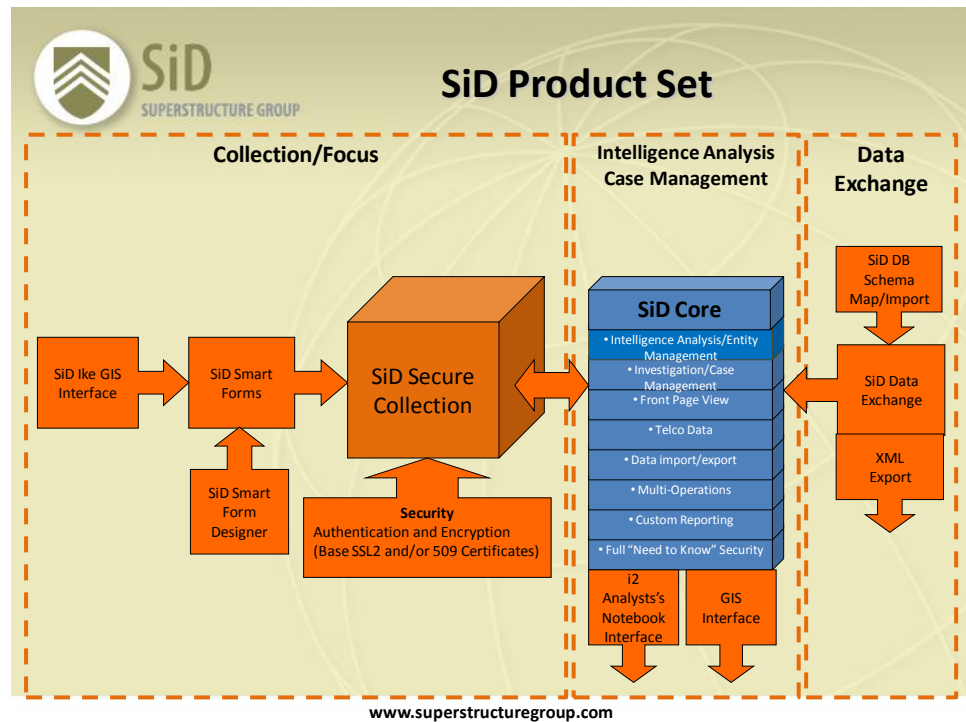
SiD Secure Collection (SiD SC) is a new framework for delivering smart intelligence capture at source in remote/disconnected operation, and a secure data transmission mechanism over your network or over the web to central intelligence repositories.

A generic form building capability, SiD Smart Forms, enables intelligence information capture to be matched directly to an organization's intelligence or information model. Automated Intelligence Capture provides the mechanism for securely bringing in data from any source to a centralised database.

SiD Secure Collection automates much of the intelligence linking and entity recognition process, providing attachment of related information in any file format including images, media clips, sound files or any other form of application-recognisable file. The SiD Smart Forms supports full validation based on the meta-data validation definitions for the organisation. Intelligence relationships can be both implicitly and explicitly built with the Smart Form or other input sources.

The SiD Secure Collection framework not only handles the secure authenticated transmission of data – it provides the ability to deploy on disconnected and mobile devices. Data transmission queuing is automated to allow a secure transfer once connection to a network is established.

Product Set



Benefits of SiD Secure Collection

- Automation** – significantly reduces the collection and analysis phases of an operation
- Accuracy** – high degree of service quality, synchronised information
- Scalability** – remote intelligent data input/capture reducing bottlenecks
- Data Flexibility** – exactly matches an organisation's information needs at low cost
- Secure information transfer** – protection of information to appropriate classification level

Product Features

- Automated Intelligence capture
 - Operate Remote – operate Mobile
 - Data-based validation
 - Security
-

Automated Intelligence Capture

Automated Intelligence Capture provides the means for Intelligence data from multiple sources (as well as the SiD Smart Forms themselves) to be pre-processed directly into the structured intelligence model of any database repository.

Management of the secure transmission of data and the duplicate resolution on loading are all handled as part of the Secure Collection framework. Automated intelligence capture is delivered in a number of plug-in products:

- SiD Smart Forms
 - SiD Classifier
 - SiD ike interface
 - SiD Import.
-

Operate Remote and Disconnected

SiD Secure Collection brings the flexibility of remote intelligence capture, operating anywhere on the world-wide web, and in a mobile mode – detached from any network.

The custom form feature allows each business process to have its own forms – therefore the information content can be presented relevant to the current process. It also means in the remote sense that minimal “sketch” information can be gathered in the field – then extended once the information is brought back and access to other research sources is available.

The application automatically detects when connection occurs to allow re-synchronization of data. Data can be transmitted from anywhere on the web with security assured.

Data-based validation

Full data-based validation is provided with the SiD Smart Forms link directly to the host data base meta-data which describes validation and lists of lookup values. There is no re-keying of critical data and data validation at source guide users to high quality input.

Features include:

- Data list values
- Range checks
- Data type checks
- Value dependency checks
- Duplicate checking
- Mandatory fields

Data contents can be re-synchronized with the host database at any time. This means that new lookups can be downloaded from the host – along with any meta-data, forms and data changes with minimal business impact.

Security

The SiD Secure Collection application provides full user authentication including authentication modes for disconnected users. Transmission is encrypted with base levels SSL/SSL2 – with provision for plug-in security to higher levels as required.

The application uses a cryptographic module which provides a base level of HTTPS encryption that has been certified to FIPS 140 level. FIPS 140 covers areas such as security functionality, protection profiles, random number generators and key establishment techniques. The plug-in capability provides virtually unlimited security extension.

Product Modules

SiD Secure Collection (SiD SC) is made up of a core module and a number of component modules.

The component modules are:

- SiD Smart Forms
- SiD Smart Form Designer (forms design is delivered as a Superstructure service)
- SiD Import

The screenshot displays the 'SiD Smart Forms Design Time Environment - New SmartForm (Unsaved)' window. The central area shows a 'Person Smart Form' with the following fields and data:

Field	Value
First Name	John
Middle Name	
Surname	Smith
Alias	
Date of Birth	16/04/1964
Gender	MALE
Occupation	
Salary	\$ 0.00
Address	125a Main St
Employer	
Photograph	
Related Vehicle Colour	Green
Related Vehicle Make	CAMPERVAN
Related Vehicle Model	
Related Vehicle RegistrationNo.	ABC123

Annotations in the image:

- An arrow labeled 'Format and Layout' points to the 'Layout' section of the 'Toolbox' on the left.
- An arrow labeled 'Intelligence Meta-Data' points to the 'Designer Items' panel on the right, which lists 'Person1' and its associated metadata like 'Comments', 'Lucky Number', 'POB', etc.

SiD Smart Forms

SiD Smart Forms bring automatic association and linking, generation of profiles and information categorization to the intelligent capture of information. SiD Smart Forms can be custom designed to identify the key intelligence content of the information from any organization – the intelligence can be extracted from the base data entry process. Key intelligence relationships to be automatically configured into the data entry process – although the base data entry appears to simply fill in the form – all the intelligence inter-relationships and profiles inherent in that data are automatically captured in a structured form.

Entity recognition is provided to allow pre-configured detection of certain form elements as entities – and to implicitly or explicitly generate associations between entities.

Workflow process

SiD Smart Forms can model existing business work-flow processes exactly as required. A complete form-based process can be implemented with custom Smart Forms for each step.

A SiD Smart Form can have all the details entered into one form or, as shown in the example above, you can have one main form with related forms for vehicle, person details associated with the main form. Automatic links (associations) are created for example if you have a field on your Person form called “Driver”, the SiD Smart Form could create a link (association) of “driver of” to the Vehicle.

When a SiD Smart Form is saved it will include:

- entities (objects) that have been created
- what projects it is related to
- links (associations) that have been created
- attachments (any Windows file types, eg image, video, sound, i2 Link Chart)
- flags (alerts) on entities

Pre-processing includes the entity recognition, association linking and validation of data. There is also a capability for quarantine and review of data prior to actual database import.

SiD Smart Form Designer

The SiD Smart Form Designer provides a powerful drag and drop custom form design capability to allow building the forms to match the organization's needs exactly. Superstructure use this capability for rapid delivery of quality custom forms.

Features:

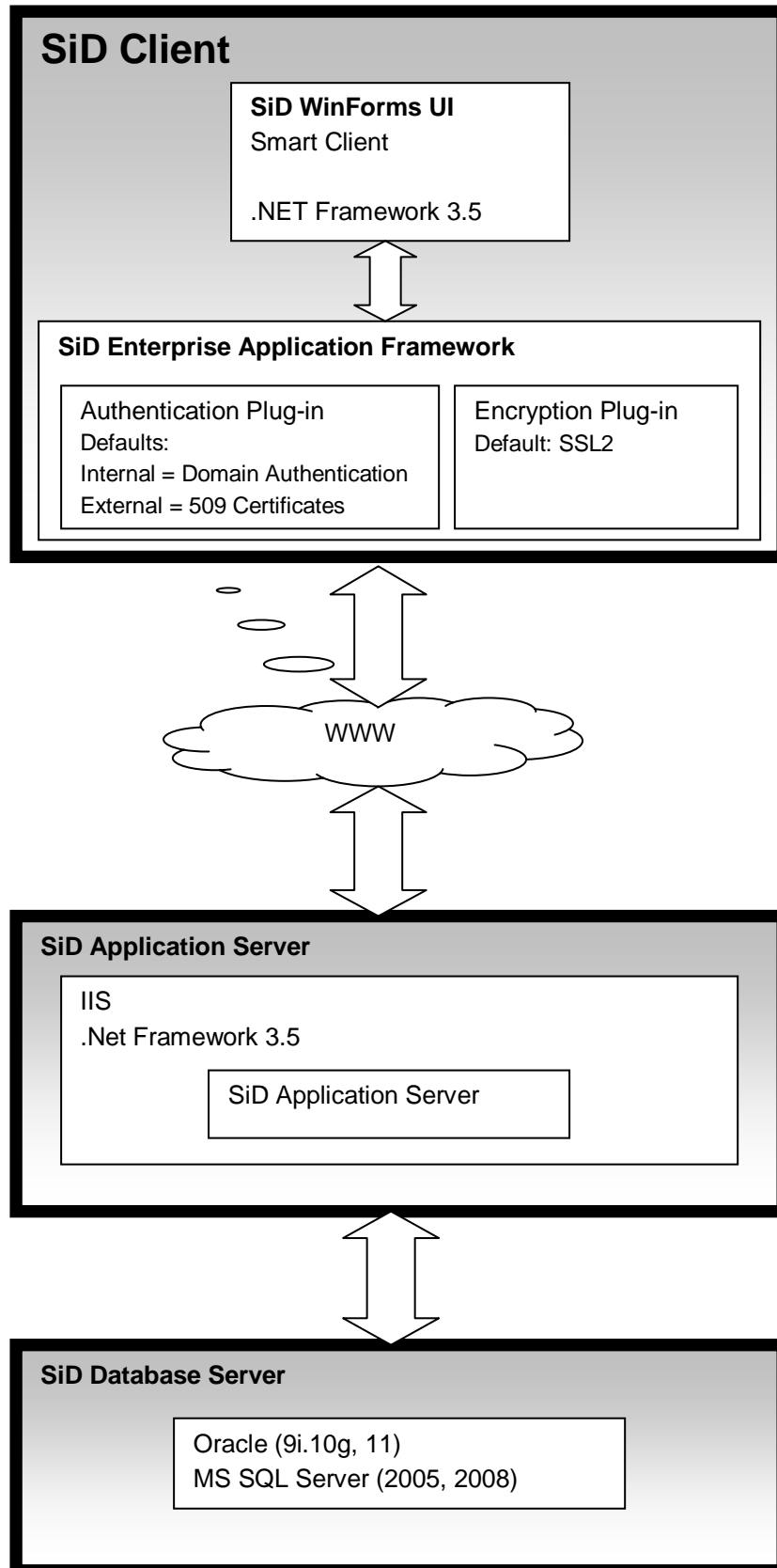
- Form layouts to match business needs or replicate existing paper forms
- Vertical and horizontal sizing options
- Images and logos supported
- Repeating groups, List boxes, Check boxes, Radio buttons and all standard text controls
- Line, panel frames, multi-column formatting options supported
- Native and extended validation rules can be applied
- Data content matched exactly to business needs

Each business process can have its own custom forms – therefore the information content can be presented relevant to the current process.

SiD Import

SiD Import is an embedded facility within the core SiD product. This facility allows extraction of intelligence information from structured database sources. A unique schema mapping capability models information from a database schema to be imported into SiD – extending the overall intelligence association picture.

Technology Architecture



Application Server

SiD Secure Collection provides a model of form building, intelligence capture and deployment that supports all the necessary secure network or web data transfer including:

- Authentication
- Security and encryption
- Remote and disconnected use (including management of multi-user data update contention)
- Transmission management
- Form design capability with full layout and validation

Delivered with the SiD Secure Collection application is all the necessary web services plumbing to handle the input and point to point data delivery requirements of any application. Data transmission and upload capabilities include full management of disconnected operation.

These framework services support a generic forms capability. The SiD Secure Collection domain model has been designed to allow the capture of information for any intelligence model.

The transmission of the resulting data is in an XML definition format – which is imported direct to the SiD database – with all the necessary entity duplicate checking review processing.

Technology

The SiD Secure Collection application operates within a Smart Client interface which is an 3-tier architecture providing global communication flexibility either over a corporate network or via the web with security plug ins for authentication and encryption, plus options for disconnected operation.

The Secure Collection architecture operates with a scaleable application server layer on Microsoft IIS and all the advantages of user interface power driven by Microsoft .NET client framework. The unique Application Framework underpinning the SiD Secure Collection application also allows synchronisation of definitions when changes are made to the underlying intelligence model. Data exchange is via XML – with an open standard for information exchange.

Scalability

SiD Secure Collection is able to provide as much bandwidth as needed by deploying multiple application servers.

Literally the scalability options are unlimited in terms of the users (or information sources) that may be supported. The independent application server scalability allows any number of servers to be applied to the user/transaction load.
