



Comprehensive Disease Surveillance Platform: *Casetivity*-DSS by Strategic Solutions Group (SSG)

At Strategic Solutions Group (SSG), we understand the growing complexities public health agencies face in managing disease surveillance and outbreak response. To meet these challenges, *Casetivity*-DSS offers a modern, scalable, and integrated platform tailored for efficient, timely, and accurate public health operations. This cloud-enabled, low-code solution seamlessly connects with vital systems such as Health Information Exchanges, Immunization Information Systems, and Vital Records, ensuring streamlined workflows and robust interoperability.

Casetivity-DSS leverages powerful automation, real-time analytics, and configurable features to support essential public health activities. From processing electronic case reports and tracking outbreaks to managing investigations and generating actionable insights, the platform helps agencies reduce administrative burdens and focus on safeguarding communities. Designed with flexibility and security at its core, *Casetivity*-DSS ensures compliance with state and federal regulations while empowering public health teams to adapt to evolving needs.

SSG brings decades of public health expertise, and *Casetivity*-DSS reflects our commitment to delivering innovative, trusted solutions that modernize disease surveillance and improve public health outcomes nationwide.

WHY CHOOSE *CASETIVITY*-DSS?

Casetivity-DSS combines advanced technology with deep public health expertise to deliver a platform that not only addresses today's challenges but also evolves to meet future needs. By adopting *Casetivity*-DSS, public health organizations can:

- **Achieve Operational Efficiency:** Automate key processes such as deduplication, investigation assignments, and decision support, saving time and reducing labor-intensive tasks.
- **Gain a Longitudinal Perspective:** Easily view patients' reportable disease history to support better decision-making and care coordination.
- **Improve Data Quality and Integration:** Leverage advanced address validation, industry-standard APIs, and seamless ELR ingestion to ensure accurate and comprehensive data.
- **Enhance Surveillance and Outbreak Management:** Link investigations to outbreaks, access outbreak-specific dashboards, and monitor key public health indicators with precision.
- **Adapt to Future Needs:** With configurable workflows, disease-specific features, and modern architecture, *Casetivity*-DSS supports evolving public health priorities.

Unlike competitors, *Casetivity*-DSS offers unparalleled flexibility, configurability, and automation capabilities. Its intuitive design eliminates the inefficiencies of rigid legacy systems while providing powerful tools for real-time insights, decision support, and seamless integrations. Public health organizations benefit from faster implementation, reduced operational costs, and a scalable platform tailored to their unique needs.



INVESTIGATION MANAGEMENT

Effectively manage investigations with automated workflows that reduce manual efforts, ensuring timely and accurate case assignments, tracking, and resolution.

- **Auto-Assign Investigations:** Automatically route investigations to the appropriate jurisdictions or investigators using custom business rules, reducing the manual effort required to determine ownership of cases.
- **Auto-Close Investigations:** Automatically close investigations based on predefined business rules, saving time and resources on high-volume cases that do not require full reviews.
- **Multi-Event Tracking and Co-Infections:** Track multiple infections, such as STIs, under one investigation to streamline data entry and management for diseases with overlapping case report form questions.
- **Splitting Lab Results:** Reassign or divide lab results between investigations as necessary, ensuring data accuracy and proper case assignment.
- **Custom Disease-Specific Views:** Provide tailored views for investigations, including CDC Case Report Forms and additional disease-specific data fields.
- **Dynamic Forms & Notifications:** Generate and send forms to patients automatically, reducing documentation time. Stay informed with real-time email notifications triggered by custom business rules.
- **Configurable Contact Tracing:** Customize contact tracing processes on a per-disease basis, enabling auto-creation of investigations for named contacts or allowing investigators to initiate contact investigations manually.
- **Critical Alerts for Investigators:** Notify investigators when new investigations meet high-priority conditions or predefined triggers, improving response times.
- **Longitudinal Patient History:** Provide an efficient way to view a patient's reportable disease history over time, improving decision-making and care coordination.
- **Automated Decision Support:** Incorporate disease timeframes to automate the creation of new Reportable Event investigations or the insertion of lab results into existing investigations, reducing manual reviews.



DEDUPLICATION

Leverage AI-powered deduplication to ensure data integrity, minimize duplicate records, and streamline case investigations.

- **Custom Expressions for Matching:** Employ AI-driven deduplication algorithms to reduce manual intervention, ensuring accurate and complete records while enabling selective merging of matched records.
- **Selective Merging:** Provide users with detailed comparisons of matching records, enabling informed decisions on data consolidation.
- **Automated Deduplication:** Streamline deduplication processes with enhanced automation, reducing daily operational burdens.

Discover how *Casetivity-DSS* can transform your public health initiatives. Contact us today to learn more or schedule a demo at sales@ssg-llc.com.



ALERTS AND NOTIFICATIONS

Stay informed with real-time alerts and automated notifications, enabling rapid response to critical public health events and reducing missed follow-ups.

- **Configurable UI Alerts:** Create configurable alerts based on demographics, lab results, partner data, or other criteria, enabling investigators to address critical conditions promptly.
- **Automated Notifications:** Automatically send alerts and updates to key stakeholders, ensuring timely communication and follow-ups.
- **Threshold-Based Alerts:** Configure alerts triggered by threshold values such as age, missed appointments, or lab result anomalies, helping teams respond proactively.



MODERN ARCHITECTURE

Built for scalability and performance, Casetivity-DSS supports high data volumes with a secure, mobile-friendly, and cloud-based infrastructure.

- **Mobile-Enabled and High Performance:** Built for high-load environments, *Casetivity-DSS's* mobile-friendly design ensures accessibility and reliability across devices.
- **Scalable Infrastructure:** Leverage modern technologies to scale operations seamlessly as organizational needs grow.



WORKFLOW MANAGEMENT

Enhance efficiency with configurable workflows, automated task assignments, and real-time dashboards for tracking case progress and follow-ups.

- **Dynamic Dashboards:** Provide users with critical insights into tasks, priorities, and team metrics, improving situational awareness and supporting continuous process improvement.
- **Custom Workflows:** Implement workflows tailored to organizational processes, automating recurring tasks and follow-ups such as treatment and vaccination reminders.
- **Intra-System Notifications:** Enable users to communicate critical information directly within the system, reducing reliance on external communication tools.
- **Recurring Tasks:** Automate reminders for follow-up activities, such as vaccination appointments or treatment schedules, ensuring timely completion.



CDC DATA TRANSMISSION

Ensure seamless and timely reporting to the CDC with automated data transmissions, configurable schedules, and real-time updates that enhance compliance and accuracy.

- **Custom Interval Data Transmission:** Automate data transmission to the CDC based on specific triggers, such as investigation updates, or on configurable schedules
- **Selective Reporting**
- **Batch and Real-Time Transmission**



LAB MANAGEMENT

Optimize laboratory data handling with dynamic mapping, real-time ELR processing, and streamlined workflows for managing lab results efficiently.

- **Conditional LOINC/SNOMED Mapping:** Dynamically map test results to diseases with flexible workflows, including the ability to append, create, or reject combinations based on predefined rules.
- **Bulk Upload of LOINC/SNOMED Codes:** Simplify code management by importing large sets of LOINC and SNOMED codes through user-friendly templates.
- **Mapping Unrecognized Codes:** Address unrecognized codes received via ELR by linking them to existing ones or creating new entries, with user-defined workflows to ensure data integrity.
- **Improved Negative Results Handling:** Provide enhanced management of negative lab results, particularly for critical diseases such as Syphilis and COVID-19.
- **Expanded Laboratory Result Categories:** Offer three distinct lab result categories: those attached to the current event, those linked to other events for the same individual, and those only linked to the individual.



INTEGRATIONS AND ELECTRONIC LAB REPORTING (ELR)

Seamlessly integrate with external systems such as immunization registries and address verification services, ensuring accurate and timely lab result ingestion.

- **Third-Party Integration API:** Seamlessly integrate with external systems, such as address verification services, immunization registries, and occupational health services.
- **Real-Time ELR Processing:** Process lab results in real-time rather than batch uploads, enabling timely reporting and notifications.
- **Parent/Child Susceptibility Structures:** Support hierarchical test results, ensuring accurate data representation for complex lab findings.
- **Facility Management:** Quickly link new facilities received via ELR messages to existing records or create new entries, streamlining operations.
- **Industry and Occupation Integration:** Leverage the NIOSH API to standardize industry and occupation codes, improving data quality.



OUTBREAK MANAGEMENT

Enhance outbreak response with tools for tracking, managing, and linking investigations to outbreaks, ensuring coordinated data collection and real-time insights.

- **Ad-Hoc Supplemental Forms:** Create targeted surveys and forms linked to specific outbreaks, facilitating focused data collection for outbreak management.
- **Outbreak-Specific Dashboards:** Provide real-time updates and visualizations for active outbreaks, improving situational awareness and decision-making.
- **Integrated Data Collection:** Link outbreak records directly with investigations, enabling streamlined data entry and reporting.
- **Outbreak Linkage:** Enable linkage of investigations to outbreaks using local, state, and national outbreak identifiers, such as PNUSA numbers.



DISEASE MANAGEMENT

Customize disease configurations, streamline co-infection tracking, and enhance address validation to improve data accuracy and surveillance capabilities.

- **Granular Disease Configuration:** Customize timelines, CDC classifications, co-infection indicators, and susceptibility testing on a per-disease basis to enhance operational precision.
- **Selective CDC Reporting:** Define which diseases to report to the CDC, ensuring compliance without unnecessary data transmission.
- **Integrated Susceptibility Testing:** Specify which diseases include susceptibility testing to ensure accurate tracking and treatment planning.
- **Enhanced Address Validation:** Include geocoding, longitude/latitude, census tract/block data, and census keys for accurate and standardized address formats.
- **Expanded Demographic Data:** Support expanded race, ethnicity, sexual orientation, and gender identity data sets, aligning with CDC variations and program needs.



DATA MODEL

Utilize a flexible, fully customizable data model that aligns with jurisdictional needs, supports seamless legacy data migration, and optimizes reporting.

- **Customizable Relational Data Model:** Adapt the platform's data model to your specific needs, ensuring seamless legacy data migration and intuitive data extraction.
- **Flexible Naming Convention:** Support data models that align with your organization's naming conventions, simplifying data management and reporting.
- **Performance Optimization:** Ensure high performance for large-scale operations and data retrieval.