

RemoteCollector - Bridging the GAP



Collect

- Overcoming limits of data silos
- Real-time data access
- Heterogeneous data sources

Transform

- Validated data transfer

Deliver

- Quality by Design
- Regulatory standard based

Transforming Life-Science Data into Intelligence

The complexity of modern IT infrastructure was constantly increasing over the last years. In the same way, the amount of data sources for result-oriented analysis was increasing too. IT departments are requested to overcome the limitation of such data silos by providing solutions that allow a timely delivery of various regulatory compliant data representations, meeting the goal of a validated data transfer and real-time data access.

The development of up to data's RemoteCollector was driven by the requirement to allow centralized, synchronized and simultaneous data access to a set of heterogeneous data systems that are storing information items that have a "logical" association – combined with a centralized repository and user access management that integrates with almost any reporting engine.

RemoteCollector represents a configurable platform that transparently enables parallel and synchronized real-time access to a wide variety of data sources. But even more, it allows IT departments to setup "logical" entity models based on these complex physical data structures, ensuring data integrity and business rules. These logical domain models can be made accessible to a business user who utilizes standard reporting tools like Crystal Reports™, Infomaker or many others by a centralized repository. As a result business users do not have to care about the complexity of the physical data model anymore.

Advantage

- Synchronized and simultaneous real-time data access
- Support for relational databases (Oracle, SQL Server...), web services and API-based systems (SAP, ELN...)
- Logical domain data modeling
- Repository based on user access control and simplified role-out
- Integration with standard reporting (Crystal Reports™, Infomaker...) or systems (SharePoint...)
- Integrated Master-Data Management (MDM) functionalities to overcome data inconsistencies

Heterogenous Data Sources

RemoteCollector allows the configuration of server entities and data structures based on their physical access path like relational database, web service or API (e.g. BAPI).

Physical server entities are mapped to logical data entities. A logical entity can be created "joining" physical entities (e.g. a web service entity "joined" with a relational entity) or merging entities from multiple remote systems.

Whenever a report is executed based on the logical model, any associated query is evaluated using its underlying physical paths, synchronizing heterogeneous "joins" across systems and resolving data inconsistencies using Master-Data-Management (MDM). All this is done in real-time and transparently to the user.

Logical domain data model

The logical entity model is the key element in the RemoteCollector architecture. Administrators can setup multiple logical domain models based on physical access paths, ensuring data and referential integrity in every single domain model. Logical domain names can be maintained independent of their physical counterpart, thus allowing business users to "understand" terms and terminology of this model.

Logical models can be published to a predefined audience to give them the opportunity to design specific reports using their application of choice.

Reports designed on the logical domain model are executed ensuring all underlying application rules and security measures that have been built up by administrative users.



Security and version Control

A logical entity model is residing within the RemoteCollector repository. Administrators can setup users and roles to grant access to different domains within the organization that owns these logical entity models. Any report created from a logical model can be version controlled within this repository and furthermore inherit the security settings from its underlying logical model.

A report version can be published to a broader audience within this repository. The role-out of a new version is managed with a "push of a button" by an authorized user.

Integration with standard reporting

As technology on the front end, RemoteCollector is implementing standard Microsoft .Net mechanisms, allowing the integration with almost any modern reporting application.

The reporting application is using the logical model and all physical properties are hidden from the user.

Combining RemoteCollector with up to data's iStudyReporter solutions the design of regulatory compliant study reports for submission is advanced to a new level. As a result, report writing for approval based on multiple systems, is a matter of minutes.

