

Prototype, Maxdata SafeCloud-based healthcare platform

D5.4

Project reference no. 653884

August 2017



Horizon 2020 European Union funding for Research & Innovation

Document information

Scheduled delivery	31.08.2017
Actual delivery	31.08.2017
Version	1.0
Responsible Partner	Maxdata Software, S.A.

Dissemination level

Public

Revision history

Date	Editor	Status	Version	Changes
12.06.2017	P.Sousa	Draft	0.1	Initial version, section 2 done
13.06.2017	P.Sousa	Draft	0.2	Section 3.2 done
28.07.2017	P.Sousa	Draft	0.3	Only section 3.2.2 is missing
01.08.2017	F.Maia	Draft	0.4	Input from INESC TEC
01.08.2017	B.Ferreira	Draft	0.5	Ready for 1st internal review
16.08.2017	B.Ferreira	Draft	0.6	Added contributions and feedback
				HOIII CIDER and INESCIEC
19.08.2017	P.Sousa	Final	1.0	Final release

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Acknowledgements

This project is partially funded by the European Commission Horizon 2020 work programme under grant agreement no. 653884.

More information

Additional information and public deliverables of SafeCloud can be found at http://www.safecloud-project.eu



Glossary of acronyms

Acronym	Definition
EU	European Union
SQL	Structured Query Language
ORM	Object-relational mapping
SaaS	Software as a Service
BLOB	Binary Large OBject



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Executive summary

This deliverable describes a first prototype of the Maxdata SafeCloud-based healthcare platform. Main topics presented:

- An overview of the CLINIdATA® eHealth Solution, Maxdata's most important product.
- A description of the first version of the prototype that covers 2 of the 3 scenarios presented in D5.2 (SaaS and hybrid deployments), including the challenges that were addressed during the development of the integration between CLINIdATA® and the Secure SQL Engine.
- A set of demonstration procedures that show in practice the implementation of a use-case described in Deliverable D5.2.



1 Introduction

The objective of work package 5 (WP5) is to deploy SafeCloud in order to provide its novel privacy features to new and improved products and services. Two main use cases will be demonstrated: a cloud storage platform and a healthcare platform.

In deliverable D5.2 we presented the design and requirements of the healthcare platform that will be built by Maxdata on top of the SafeCloud framework.

This deliverable (D5.4) describes a first prototype of the Maxdata SafeCloud-based healthcare platform.

The deliverable is structured as follows.

- Section 2 presents the design of the healthcare platform. This platform is based on CLINIdATA®, an eHealth web application owned by Maxdata.
- Section 3 describes the different components of the prototype v1 and the challenges faced during its integration.
- Section 0 describes the healthcare laboratory information system demonstrator, making use of the SafeCloud Secure Queries Layer.
- Conclusions about the prototype are summarized in Chapter 5.



2 CLINIdATA[®] eHealth Solution

As described in deliverable D5.2, the healthcare platform that is being built in SafeCloud, is based on CLINIdATA®, an eHealth web application owned by Maxdata.

CLINIdATA® is composed of several modules, including a healthcare laboratory information system and an epidemiological surveillance system dedicated to supporting Hospital Infection Control Committees.

2.1 Product context

CLINIdATA® addresses different types of clinical and non-clinical organizations. In the clinical domain, CLINIdATA® is used by various healthcare organizations, including hospitals, clinics, laboratories, and primary care units. In the non-clinical domain, CLINIdATA® is used in laboratories of many areas, including water, food, and environmental health.

Maxdata current approach is to install its software on customer premises. This approach has allowed Maxdata to conquer most of the Portuguese market - currently present in more than 80% of national public hospitals -, but now the company wants to sell its products abroad and one of the ways is to deploy them on the cloud and sell them as a service (SaaS).

Architecture-wise, CLINIdATA® is a web application composed of 3 layers:

- **Presentation layer**: Includes the presentation logic and runs on any common browser (e.g., Google Chrome, Mozilla Firefox, Microsoft Internet Explorer). HTML and JavaScript code is generated automatically using the Google Web Toolkit¹;
- **Business logic layer**: Set of services, running on the server side, that implement the business logic. These services are implemented in Java using the Spring Framework²;
- **Database access layer**: Set of methods, running on the server side, used to access the relational database where data is persisted. These methods use the Hibernate ORM Framework³ to abstract the concrete DBMS (e.g., Oracle⁴, PostgreSQL⁵) being used.

CLINIdATA® is used by different types of organizations, ranging from small laboratories with a few dozens of professionals and hundreds of transactions per day, to very large hospital clusters with thousands of professionals and tens of millions of transactions per day. Deliverable D5.2 details the typical workloads of large versus small organizations in terms of users, analyzers, exams, storage, and database transactions.

2.2 Product capabilities/functions

CLINIdATA® is an eHealth web application that includes the following main features:

• 100% web application - no plugins required on the client side, only a web browser is need to run the application;

⁵ http://www.postgresql.org



¹ http://www.gwtproject.org

² https://projects.spring.io/spring-framework

³ http://hibernate.org/orm/

⁴ https://www.oracle.com/database/index.html

- Cross-platform application where server components may run on any common operating system (e.g., Linux, Mac OS X, Solaris, Windows) and relational database (e.g., MySQL, PostgreSQL, Oracle, SQL Server);
- Overall management and control of clinical laboratories, including technical and financial aspects of all areas of Clinical Pathology (e.g., clinical chemistry, hematopathology, microbiology, immunology) and Anatomic Pathology (e.g., histopathology, cytopathology, immunohistochemistry);
- Overall management and control of different types of non-clinical laboratories, e.g., water, air, food;
- Management of the entire exam process in clinical and non-clinical laboratories, including the 3 typical phases:
 - **Pre-analytical**: Prescription, specimen collection, specimen transport;
 - **Analytical**: Exam realization, quality control, results validation/approval;
 - **Post-analytical**: Access to exam results by patients & clinicians, billing.
- Epidemiological surveillance tool dedicated to supporting Hospital Infection Control Committees in the prevention, identification and monitoring of infections;
- Real-time interface that supports more than 300 different automated analyzers;
- Integration with dozens of other clinical and non-clinical information systems (e.g., intensive care unit, patient identification, billing, regional health portals);
- Rules engine, allowing the incorporation of intelligence and safety throughout the whole application;
- Business Intelligence (BI) platform that allows to view and explore statistics through dashboards and other visual elements.

2.3 Constraints

When deployed in healthcare organizations, CLINIdATA® manages personal data, so it should be compliant with regulations on personal data protection (e.g., in Europe - General Data Protection Regulation⁶, in the USA - Health Insurance Portability and Accountability Act⁷).

2.4 Cloud Deployment Scenarios

Taking advantage of the benefits of the SafeCloud framework, CLINIdATA® may be deployed on the cloud in 3 different scenarios depending on the customer type and on the features that the customer wants to access:

- **SaaS deployment**: for small and medium-scale healthcare organizations that want to reduce costs on infrastructure, CLINIdATA® will be offered using the software-as-a-service (SaaS) model where all components are deployed on cloud providers contracted by Maxdata.
- **Hybrid deployment**: for large healthcare organizations that want to reduce costs on infrastructure but do not trust any cloud provider, CLINIdATA® computation/processing will be installed on customer's premises making use of

⁷ http://www.dhcs.ca.gov/formsandpubs/laws/hipaa/Pages/1.00WhatisHIPAA.aspx



⁶ http://ec.europa.eu/justice/data-protection/

SafeCloud components to access data securely stored on untrusted cloud providers contracted by healthcare organizations.

• Analytics deployment: for groups of healthcare organizations that want to share analytics on their combined data without revealing the private data of each organization, CLINIdATA® computation/processing will be installed on each of the involved customer's premises making use of SafeCloud components to access data securely stored on untrusted cloud providers – contracted by the healthcare organizations - in a way that each healthcare organization is only allowed to put in its private data but cannot make direct queries for data – i.e. only aggregated queries are possible.

Deliverable D5.2 describes each of these cloud deployment scenarios in more detail, including the way CLINIdATA® will take advantage of the SafeCloud framework to achieve its goals.



3 Prototype v1

3.1 Introduction

The first version of the healthcare platform prototype covers the SaaS and hybrid deployment scenarios described in D5.2 and summarized in Section 2.4 of this deliverable. Figures 1 and 2 present how each of the deployments was instantiated in this first version of the prototype.



Figure 1 – First version of the healthcare platform: SaaS deployment





Figure 2 - First version of the healthcare platform: hybrid deployment

The main work done was the integration between CLINIdATA® and solution 1 of the SafeCloud Secure Queries Layer (Secure database server - SQ1). The details of this integration are presented in the following sections.

3.2 Integration of CLINIdATA® with SafeCloud components

3.2.1 CLINIdATA® Integration Work

In order to integrate CLINIdATA® with solution 1 of the SafeCloud Secure Queries Layer (Secure database server - SQ1), some changes had to be done on the database access layer of the CLINIdATA® web application to fully support the Apache Derby⁸ SQL interface provided by SafeCloud SQ1. However, these required changes were greatly eased thanks to the use of the Hibernate ORM Framework on the CLINIdATA® database access layer, as it was described on the Section 2.1 of this document. The use of this framework allowed to reuse almost every SQL query that CLINIdATA® is already using on top of other database management systems that are supported since the beginning, namely Oracle and PostgreSQL. Nevertheless, some minor adjustments had to be done on some specific queries, for instance the queries used to validate the application licenses (Figure 3) and also some migration scripts had to be converted for the Derby SQL syntax (Figure 4).

⁸ https://db.apache.org/derby/





Figure 3 - Java method used to get the oid of the table TB_LICENSE, in order to be used to validate if the client's license is still valid



Figure 4 – Liquibase SQL scripts (Derby and Oracle) to recreate a sequence

The first issue of this integration was encountered during the tests with a Derby database, using the Derby's network client driver. When testing with the Derby's embedded driver⁹ the application ran smoothly, without any issues. Yet, the embedded driver was not an option to use with the SafeCloud SQ1 Engine because, when an application accesses a database using the Embedded Derby JDBC driver, the Derby engine does not run in a separate process, i.e., it runs inside the same Java Virtual Machine (JVM) as the application. This aspect was problematic because we could have multiple web servers running CLINIdATA® accessing the database and with the embedded driver, this was not possible. The solution for this issue was to use the Derby Network Client¹⁰ which provides network connectivity so multiple clients can access the same Derby database. However, Derby Network Client does not support nested savepoints yet, as it is reported in the Apache bug tracking system¹¹, and the application crashed with a SQLException on the first test. CLINIdATA® uses nested savepoints to avoid having to rollback an entire transaction in specific situations. For now, the solution provided by INESC TEC, which is based on Derby, was to deactivate the nested savepoints feature on SafeCloud SO1 in order to circumvent the error and to proceed with the integration.

¹¹ "Make client driver allow nested savepoints", <u>https://issues.apache.org/jira/browse/DERBY-3687</u>



⁹ Embedded Derby, <u>https://db.apache.org/derby/papers/DerbyTut/embedded_intro.html</u>

¹⁰ Derby Network Client, <u>https://db.apache.org/derby/papers/DerbyClientSpec.html</u>

With the SafeCloud SQL Engine up and running, the first step consisted on the creation of the database required for the CLINIdATA® web application. For this purpose, we used a migration tool called Liquibase¹² that reads the schema from xml files and creates it on a given database. After the creation of the schema, Liquibase is also used to populate the schema with some sample data, read from xml files as well.

The next step of the integration, was to run the CLINIdATA® web application using the SafeCloud SQL Engine, with the database already created and populated with some data to run a few tests. Here, another issue arose when the application was trying to start. The Hibernate ORM Framework provides an automatic auditing system¹³ that is created automatically on the first time the application runs and it is maintained automatically every time the domain changes. When trying to create the auditing system, some SQL statements were rejected because SafeCloud SQ1 does not support them yet, for instance statements such as "ALTER TABLE COLUMN (...)". These statements are executed automatically by Hibernate. If the auditing system is activated, when the application is running, it tries to insert data on the auditing tables as operations are done on the system and if an auditing table doesn't exist, an error occurs. To avoid this issue, we deactivated the auditing system until the problem is solved and proceeded to the next step.

Finally, with the application running, the icons were not shown on the UI, given that SafeCloud SQ1 does not support BLOBs¹⁴ yet. CLINIdATA® stores some icons and also binary data related with the reports, on the database, as BLOBs. Comparing Figure 5 with Figure 6, it is noticeable the visual impact that the icons have on the application's UI.



Figure 5 - CLINIdATA[®] main screen, using an embedded Derby database.

¹⁴ <u>https://en.wikipedia.org/wiki/Binary_large_object</u>



¹² http://www.liquibase.org/

¹³ <u>https://docs.jboss.org/envers/docs/#preface</u>



Figure 6 - CLINIdATA[®] main screen, integrated with SafeCloud SQ1 (BLOBs not supported).

Despite of this latter issue, the full circuit of a typical laboratory was tested successfully with the creation of multiple patient registrations with random exams, insertion and validation of the results. To easily test the full circuit multiple times, a utility option (Automated Tests - Figure 7) was developed so that the user could trigger a set of automated tests with random data and check the progress and total time of the operation.

	CLINIDATA® eHealthione solution
Automated Tests	(143101011)8)
Create 5 episodes, associated with new patients, each one with 3 random exams.	Elapsed Time (seconds) Start 354 100%
Send messages to the user with the text	Start .
Clinical Pathology circuit for 3 episodes, each one with 5 random exams.	Stop - 33%
	maxdata
	× () (12:55:49

Figure 7 - Utility to automatically test the full circuit of a typical laboratory.



We conducted a set of initial experiments in order to evaluate the performance overhead of the current version of SafeCloud SQ1 regarding a normal embedded Apache Derby database. SafeCloud SQ1 was tested in 2 scenarios:

- Without security features activated
- With security features activated, namely by encrypting a set of table columns related to patient identification and exam results

Regarding to the data that should be covered by the security features for this prototype, the columns listed on Table 1 were considered as crucial.

TABLE	COLUMN	DESCRIPTION
DTW/ PATIENT	NAME	Name of the
	NAME	patient.
		Calculated
		birthdate for the
		patient in
DTW_PATIENT	CALCULATED_BIRTHDATE_STAMP	particular cases
		where the patient
		doesn't know the
		exact birthdate.
DTW/ DATIENT	RIDTHDATE STAMD	Patient's
DIW_FATIENT	DIKTIDATE_STAMI	birthdate.
		Set of IDs that can
		be used to identify
DTW_PATIENT_ID_BY_PATIENT	SUBJECT_ID	a patient, e.g.,
		social security
		number, citizen id.
DTW/ TEST DESILLT	NODMAL VALUE	Value of a specific
DIW_IESI_RESULI NORMAL_VALUE	NORMAL_VALUE	result for an exam.

Table 1 - Columns protected by the SQ1 security features.

Three CLINIdATA® workloads were used:

- Creation and insertion of 1 episode with 1 random exam
- Transmission of 100 messages with the text "Dear Alice, this message is a test. Thanks, Bruno."
- Clinical Pathology Full Circuit for 1 episode with 1 random exam

Table 2 presents the number of seconds CLINIdATA® took to complete each workload when using: Apache Derby, SafeCloud SQ1 without security features, and SafeCloud SQ1 with the security features mentioned above.

	Creation of episodes and exams (seconds)	Message transmission (seconds)	Clinical Pathology Full Circuit (seconds)
Apache Derby	3	6	6
SafeCloud SQ1 without security features	1884	7	2039
SafeCloud SQ1 with security features	3809	7	3260

Table 2 - Elapsed time and overhead of the different test scenarios.



The results show that SafeCloud SQ1 without security features activated introduces a performance overhead across all the operations when compared with Apache Derby and this overhead increases significantly when the security features are activated.

The creation of episodes and exams, and the Clinical Pathology full circuit, have more complexity than the message transmission. That's why it was the operation that registered the lower discrepancy when comparing the three storage solutions.

Analysing the logs produced during the tests we verified that some queries performed poorly when executed by SafeCloud SQ1, for instance if the query returned a large number of columns. Figure 8 presents a query that took several minutes to execute either with or without the security features. This query was triggered during the execution of the test that creates a new episode with a random exam and also during the Clinical Pathology full circuit.

The described tests were executed on an environment with the following specs:

- Intel i3 CPU, 4 cores 3.7 GHz, 8 GB ram, 128 SSD
- Ubuntu 16.04
- Docker version 17.03.1-ce



dtwsamples1ID		tbwexversi5SCHED_SPECIAL_EXAM_ID AS SCHED_S37_408_5_,
sampleeyam2 EPISODE EXAM TD	AS EPISODE 1 96 2	towexversis_section_id AS_Section38_408_5_,
sampleexam2_SAMPLE ID	AS SAMPLE I2 96 2 .	tbwexversi5_SPECIMEN SAVE DAYS AS SPECIME22_408_5
dtwepisode3 .ID	AS ID1 53 3 ,	tbwexversi5 .SPECIMEN SAVE START AS SPECIME23 408 5 ,
tbwexam4ID	AS ID1_388_4_,	tbwexversi5START_DATE AS START_D24_408_5_,
tbwexversi5ID	AS ID1_408_5_,	tbwexversi5SUBSECTION_ID AS SUBSECT39_408_5_,
dtwepisode6ID	AS 1D1_50_6_,	tbwexversi5_10_BILL AS 10_BILL25_408_5_,
requisitio/iD	AS ID1_92_7_, AS ID1_94_8	thwerversis TO PRINT AS TO PRIN27 408 5
dtwsample0 .ACRONYM	AS ACRONYM2 95 0	tbwexversi5 .URINE TYPE ID AS URINE T40 408 5
dtwsample0COLLECTION_ID	AS COLLECT21_95_0_,	tbwexversi5VERSION AS VERSION28_408_5_,
dtwsample0DELETED_BY_PARENT	AS DELETED_3_95_0_,	tbwexversi5VOLUME AS VOLUME29_408_5_,
dtwsample0EPISODE_ID	AS EPISODE22_95_0_,	tbwexversi5WITHOUT_RESULT AS WITHOUT30_408_5_,
dtwsample0EXTERNAL_SAMPLE	AS ETVATIV23 95 0	dtwepisode6_ACTIVE AS ACTIVE2_50_6_,
dtwsample0_FRAGMENT_OUANTITY	AS FRAGMENTS 95 0	dtwepisode6_AUTONOMOUS AS AUTONOMOUS AS AUTONOMO4 50 6
dtwsample0LABEL_DOC_ID	AS LABEL_D24_95_0_,	dtwepisode6BED AS BED5_50_6_,
dtwsample0LOCATION	AS LOCATION6_95_0_,	dtwepisode6CHANGE_DATE AS CHANGE_D6_50_6_,
dtwsample0LOCATION_SEQUENCE	AS LOCATION7_95_0_,	dtwepisode6CHANGE_REASON AS CHANGE_R7_50_6_,
dtwsample0OBSERVATIONS	AS OBSERVAT8_95_0_,	dtwepisode6CHANGE_USER_ID AS CHANGE_19_50_6_,
dtwsample0PAKENI_SAMPLE_ID	AS DRE DRING QS A	dtwepisode6_LCKEATION_USER_ID AS_CKEATIO20_50_6_, dtwepisode6_DELETION_DATE AS_DELETION8_50_6
dtwsample0_PRTMARY_SAMPLE	AS PREMARY10 95 0	dtwepisode6_DELETION_EARC AS DELETIONS_50_0_,
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dtwsample0REGISTRATION_CIPHER	AS REGISTR14_95_0_,	dtwepisode6INSTITUTION_ID AS INSTITU24_50_6_,
dtwsample0KEFEICA	AS SAMPLE 16 95 0	dtwepisode6_OKIGIN_ID AS OKIGIN_25_50_6_,
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dtwsample0_SAMPLE_SLIDE_CODE	AS SAMPLE 10 95 0 .	dtwepisode6ROOM AS ROOMLA AS ROOMLA 50.6.
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dtwepisode3_REPETITION_REASON_ID	AS REPETIT31_53_3, AS SEFFTME19 53 3	requisitio7ID AS ID1_92_1,
dtwepisode3REPETITION_REASON_ID dtwepisode3SPECIMEN_ID dtwepisode3TO_PRINT	AS REPETIT31_53_3, AS SPECIME19_53_3, AS TO PRIN20 53 3 .	requisitio7ID AS ID1_92_1, reqexams8ACTIVE AS ACTIVE2_94_8_, reqexams8_AUTHORIZATION AUTHOR NAME AS AUTHORIZ3 94 8 ,
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dtwepisode3REPETITION_REASON_ID dtwepisode3SPECIMEN_ID dtwepisode3TO_PRINT dtwepisode3TO_REPEAT dtwepisode3TRANSMITTED	AS REPETTAL 53.3, AS REPETTAL 53.3, AS TO_REPEZTA 53.3, AS TO_REPEZT 53.3, AS TRANSMIZ2_53.3,	requisitio7ID AS ID1_92_1, reqexams8_ACTIVE AS ACTIVE2.94.8_, reqexams8_ACTIVE2.94.8_, reqexams8_ACTIVE10N_DATE AS AUTHORIZ3.94.8_, reqexams5_AUTHORIZATION_NUMBER AS AUTHORIZ5.94.8_,
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<pre>dtwepisode3REPETITION_REASON_ID dtwepisode3SPECIMEN_ID dtwepisode3TO_PRINT dtwepisode3TO_REPEAT dtwepisode3TRANSMITTED dtwepisode3UREDNY_ID dtwepisode3VALIDATED tbwexam4CANNEE_DATE tbwexam4CANNEE_DATE tbwexam4CANNEE_DATE tbwexam4CODE tbwexam4CANN_ED tbwexam4CANNED tbwexam4CAN</pre>	AS INCESSION 25 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	requisitio710 AS TD1_92_1, reqexams8ACTIVE AS AUTHORIZ48_A, reqexams8BLL_EXEPTION_TD AS BIL_EXE5_94.8_, reqexams8CHANGED_DATE AS CHANGED_63.4_8_, reqexams8CHANGED_USER_TD AS CHANGED_794.8_, reqexams8CHANGED_USER_TD AS ENTON_294.8_, reqexams8CHANGED_USER_TD AS ENTON_294.8_, reqexams8CHANGED_USER_TD AS ENTON_294.8_, reqexams8CHANGEDUSER AS ENAMPED reqexams8CHANGED_USER_TD AS ENAMPED reqexams8CHANGEDUSER AS ENAMPED reqexams8CHANGEDUSER AS ENAMPED reqexams8CHANGEDUSER AS ENAMPED reqexams8NEW_COLLECTION_TTME AS INSURANCE reqexam
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<pre>dtwepisode3REPETITION_REASON_ID dtwepisode3YECIMEN_ID dtwepisode3TO_PENIT dtwepisode3TO_REPEAT dtwepisode3VALDATED dtwepisode3VALDATED tdwepisode3VALDATED tdwexam4CANNED_ATE tbwexam4CANNED_ATE tbwexam4CODE tbwexam4CODE tbwexam4CANM_ID tbwexam4CANM_ID tbwexam4CANM_SEQ_ID tbwexam4CASM_SEQ_ID tbwe</pre>	As Incodents 2, 25, 25, 25, 25, 25, 25, 25, 25, 25,	requisitio710 AS TD1_92_1, reqexams2_ACTIVE AS ACTIVE2_94, reqexams2_ACTIVE AS AUTIVE123_94, reqexams2_ACTIVE AS AUTIVE123_94, reqexams2_ACTIVE AS AUTIVE123_94, reqexams2_AUTIV0RIZATION_DATE AS AUTIV0RIZATION_DATE reqexams3_AUTIV0RIZATION_DATE AS AUTIV0RIZATION_AUTION_DATE reqexams3_B_BLIL_EXEX_PDATE AS AUTIV0RIZATION_AUTION_DATE reqexams3_CLANGED_DATE AS ELL_EXEX_94_8_, reqexams3_CLANGED_DATE AS CHANGED_05_04_8_, reqexams3_CLEATION_DATE AS CHEATION_94_8_, reqexams3_CLEATION_DATE AS CHEATION_94_8_, reqexams3_CLEATION_DATE AS CHEATION_94_8_, reqexams3_CLEATION_DATE AS CHEATION_94_8_, reqexams3_CLED_DID AS ENAM_PRID_94_8_, reqexams3_LANG_ROFILE_ID AS EXAM_PRID_94_8_, reqexams3_LNSURANCE_VALUE_TO_BENEFICIARY AS INSURANCE_94_8_, reqexams3_NINSURANCE_VALUE_TO_BENEFICIARY AS INSURANCE_94_8_, reqexams3_RUSINTINY AS INSURANCE_94_8_, reqexams8_RUS_CONTINY AS REQUISITION_94_8_, reqexams8_RUS_SUSINTIN_ID AS REQUISITI7_94_8_,
<pre>twepisode3REPETITION_REASON_ID dtwepisode3SPECIMEN_ID dtwepisode3TO_RENNI dtwepisode3TO_RENEAT dtwepisode3TO_REPEAT dtwepisode3URGENCY_ID dtwepisode3URGENCY_ID dtwepisode3URGENCY_ID dtwepisode3URGENCY_ID dtwepisode3URGENCY_ID dtwepisode3URGENCY_ID tbwexam4CAMASE_USER_ID tbwexam4SCIEGNUP_ID tbwexam4</pre>	AS NEPETTI3 53.3., AS NEPETTI3 53.3., AS SPECIME19 53.3., AS TO P.RIVEO 53.3., AS TO, REPE21.53.3., AS TO, REPE22.53.3., AS URGENV32.53.3., AS URGENV32.53.3., AS BREVITA2.388.4., AS COPA4.388.4., AS COPA4.388.4., AS COPA4.388.4., AS COPA4.388.4., AS COPA4.388.4., AS EXAM_SE15.388.4., AS EXAM_SE15.388.4., AS EXAM_SE15.388.4., AS LABEL_MAS.388.4., AS LABEL_MAS.388.4., AS AMMET.388.4., AS AMMET.388.4., AS AMMET.388.4., AS AMMET.388.4., AS PLANED.9.388.4., AS AMMET.388.4., AS AMMET.388.4., AS AMMET.388.4., AS AMMET.388.4., AS PLANED.9.388.4., AS AMMET.388.4., AS AMMET.388.4., AS AMMET.388.4., AS AMMET.388.4., AS AMMET.388.4., AS AMMET.388.4., AS AMMET.388.4., AS SCIENCID.388.4., AS	requisitio710 AS ID1_92_1_, reqexams8_ACTIVE AS AUTHORIZ48_A
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<pre>twepisode3_REPETITION_REASON_ID dtwepisode3_TOPETITION_REASON_ID dtwepisode3_TOPETAT dtwepisode3_TOPETAT dtwepisode3_TOPETAT dtwepisode3_UNEGENCY_ID dtwepisode3_UNEGENCY_ID dtwepisode3_UNEGENCY_ID tbwexam4_CANANED_DATED tbwexam4_CANANED_DATE tbwexam4_CANANED_ATE tbwexam4_CODE tbwexam4_CADE tbwexam4_CADE tbwexam4_CADE tbwexam4_CADATED tbwexam4_CATED tbwexam4_CADATED tbwexam4_CATED tbwexam</pre>	AS INCESSION 2012, 2013 AS REPETITS 25.3, 2014 AS STOP, RIVES 25.3, 2014 AS TOP, RIVES 25.3, 2014 AS TOP, RIVES 25.3, 2014 AS TRANSMELZ 25.3, 2014 AS REAKSMELZ 25.3, 2014 AS COREATED, 2014 AS COREATED, 2014 AS COREATED, 2014 AS COREATED, 2014 AS ANALESSION, 2014	requisitio710 AS TD1_92_1_, reqexams8ACTIVE AS AUTIV6123_94_B_, reqexams8ACTIVE AS AUTIV6123_94_B_, reqexams8ACTIV612TION_DATE AS AUTIV6123_94_B_, reqexams8AUTIV612TION_DATE AS AUTIV6125_94_B_, reqexams8BLL_EXEPTION_TD AS BIL_EXES_94_B_, reqexams8BLL_EXEPTION_TD AS BIL_EXES_94_B_, reqexams8BLL_EXEPTION_TD AS BIL_EXES_94_B_, reqexams8BLL_EXEPTION_TD AS BIL_EXES_94_B_, reqexams8CHANGED_DATE AS CHANGED_63_8_, reqexams8CHANGED_DATE AS CHANGED_794_B_, reqexams8CHANGED_NETE AS ENAM_D94_B_, reqexams8CHANGED_10 AS ENAM_D94_B_, reqexams8CHANGED_VALUE_TO_BENEFICIANF KS INSURANCE_VALUE_TO_BENEFICIANF reqexams8NEW_COLLECTION_TIME AS INSURANCE_VALUE_TO_BENEFICIANF reqexams8NEW_COLLECTION_TIME AS INSURANCE_VALUE_TO_BENEFICIANF reqexams8NEW_COLLECTION_TIME AS INSURANCE_VALUE_TO_BENEFICIANF reqexams8STAUS_CHANGE_REASON_TO AS REASONIG_94_B_, <t< td=""></t<>
<pre>twepisode3REPETITION_REASON_ID dtwepisode3SPECIMEN_ID dtwepisode3TO_RENAT dtwepisode3TO_REPEAT dtwepisode3TO_REPEAT dtwepisode3URGENCY_ID dtwepisode3URGENCY_ID dtwepisode3URGENCY_ID tbwexam4CHANGE_USER_ID tbwexam4CHANGE_USER_ID tbwexam4CANGE_USER_ID tbwexam4CANGE_USER_ID tbwexam4CANGE_USER_ID tbwexam4CANGE_USER_ID tbwexam4CANGE_USER_ID tbwexam4CANG_ID tbwexam4CANG_SPECIDEN_TYPE_ID tbwexam4CAN_SPECIDEN_TYPE_ID tbwexam4CANTION_REQUIRED tbwexam4CANTION_REQUIRED tbwexam4CANTION_REQUIRED tbwexam4CANTION_REQUIRED tbwexam4CANTION_REQUIRED tbwexam4CANTION_REQUIRED tbwexam4CANFIELD tbwexam4CANFIELD tbwexam4CANFIELD tbwexam4CANFIELD tbwexam4CANFIELD tbwexam4CISSUGCK_TYPE_ID tbwexam4SISUGCK_TYPE_TYPE_TYPE_TYPE_TYPE_TYPE_TYPE_TYPE</pre>	AS NEPETTI31 35.3., AS REPETTI31 35.3., AS SPECUMI30 35.3., AS TO_PNIV80 35.3., AS TO_PNIV80 35.3., AS TO_PNIV80 35.3., AS TRANSMULZ 35.3., AS MORENTS2 35.3., AS MALEDAT23 35.3., AS AS MALEDAT23 35.3., AS AS MALEDAT23 35.3., AS AS CHANGE 12.388.4., AS CODE4.388.4., AS CODE4.388.4., AS EXASTEL388.4., AS EXASTEL388.4., AS LOATIONE388.4., AS LOATIONE388.4., AS LOATIONE388.4., AS DOER.INB.388.4., AS DOER.INB.388.4., AS ONDER.INB.388.4., AS ONDER.INB.388.4., AS ONDER.INB.388.4., AS ONDER.INB.388.4., AS ONDER.INB.388.4., AS CODER.INB.388.4., AS CANDET.388.4., AS CANDET.388.4., AS CANDET.388.4., AS CANDET.388.4., AS CANDET.288.4., AS CANDET.288.	requisitio710 AS TD1_92_1, reqexams8_ACTIVE AS ACTIVE2_94_B_, reqexams8_ACTIVE AS AUTHORIZ3_94_B_, reqexams8_ACTIVE AS AUTHORIZ3_94_B_, reqexams8_ACTIVE AS AUTHORIZ3_94_B_, reqexams8_ACTIVE AS AUTHORIZ3_94_B_, reqexams8_AUTHORIZATION_DATE AS AUTHORIZATION_AUTHORIATION reqexams8_B_BLLL_EXEPTION_TD AS BILL_EXE_94_B_, reqexams8_CHANGED_DATE AS CHANGED_054_B_, reqexams8_CHANGED_DATE AS CHANGED_054_B_, reqexams8_CHANGED_DATE AS CHANGED_054_B_, reqexams8_CHANGED_USER_TD AS EVAND 10_A_8_, reqexams8_CHANGEQUENCE AS EVAND 10_A_8_, reqexams8_LEXM_SCUENCE AS EXAM_SCUENCE reqexams8_NUBAUCE_VALUE TO BENEFICTARY AS INSURANCE VALUE TO BENEFICTARY reqexams8_NUBAUCEVALUE TO BENEFICTARY AS INSURANCE AULETO BENEFICTARY
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<pre>twepisode3_REPETITION_REASON_ID dtwepisode3_SPECIMEN_ID dtwepisode3_TOR_PEAT dtwepisode3_TOR_PEAT dtwepisode3_TOR_PEAT dtwepisode3_VALDATED dtwepisode3_VALDATED tbwexam4_CANAGE_DATED tbwexam4_CANAGE_DATE tbwexam4_CANAGE_DATE tbwexam4_CODE tbwexam4_CODE tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CAMS_SOLID tbwexam4_CANS_SOLID tbwexam4_CANS_SOLID tbwexam4_CANS_SOLID tbwexam4_CANS_SOLID tbwexam4_CANS_SOLID tbwexam4_CANS_SOLID tbwexam4_SOLID tbwexam4_SOLID tbwexam4_SOLID tbwexam4_SOLID tbwexam4_SOLID tbwexam4_SOLID tbwexam5_SOLID tbwexam5_SOLID tbwexversis_CANSME_DATE tbweversis_CANSME_DATE</pre>	As networks 33, 3, 45 Section 2, 35, 3, 45 Sectime 3, 3, 46 Sec	requisitio71D AS ID1_92_1_, reqexams8ACTIVE AS AUTHOR124_8_, reqexams8ACTIVE AS AUTHOR123_94_B_, reqexams8ACTIVE AS AUTHOR123_94_B_, reqexams8AUTHOR12ATION_DATE AS AUTHOR124_94_B_, reqexams8AUTHOR12ATION_DATE AS AUTHOR125_94_B_, reqexams8BLL_EXEPTION_ID AS BIL_EXES_94_B_, reqexams8BLL_EXED_DATE AS CHANGED_054_B_, reqexams8CHANGED_DATE AS CHANGED_074_B_, reqexams8CHANGED_DATE AS CHANGED_074_B_, reqexams8CHANGED_DATE AS CHANGED_074_B_, reqexams8CHANGED_DATE AS CHANGED_74_B_, reqexams8CHANGEDUESTE_DATE AS CHANGED_74_B_, reqexams8CHANGEDUESTE_TON AS ENAMD10 AS ENAMD14_B_R_R_R_R_R_R_R_R_R_R_R_R_R_R_R_R_R_R_
<pre>twepisode3REPETITION_REASON_ID dtwepisode3SPECIMEN_ID dtwepisode3TO_RENAT dtwepisode3TO_RENAT dtwepisode3TO_REPEAT dtwepisode3TO_REPEAT dtwepisode3URGENCY_ID dtwepisode3URGENCY_ID dtwepisode3URGENCY_ID tbwexam4CHANGE_USER_ID tbwexam4CANNEE_USER_ID tbwexam4CANNEE_USER_ID tbwexam4CANNEE_USER_ID tbwexam4CANNEE_USER_ID tbwexam4CANNEE_USER_ID tbwexam4CANNEE_USER_ID tbwexam4CANNEE_USER_ID tbwexam4CANNEE_USER_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4CANNEE_ID tbwexam4SANNEE_ID tbwexam4SANNEE_ID tbwexam4SANNEE_ID tbwexam4SANNEE_ID tbwexam4SANNEE_ID tbwexam4SANNEE_ID tbwexam5CANNEE_ID tbwexversisCANNEE tbwexversisCANNEE tbwexversisCANNEE tbwexversisCANNEE tbwexversisCANNEE tbwexversisCANNEE tbwexversisCANNEE tbwexversisCANNEE tbwexversisCANNEE tbwexversisCANNEE tbwexversisCANNEE tb</pre>	As Executing 1 33 3,	requisitio710 AS TD1_92_1_, reqexams8_ACTIVE AS AUTIVE294_B_, reqexams8_ACTIVE AS AUTIVE294_B_, reqexams8_ACTIVE AS AUTIVE123_94_B_, reqexams8_ACTIVE AS AUTIVE123_94_B_, reqexams8_ACTIVE AS AUTIVE123_94_B_, reqexams8_ACTIVE AS AUTIVE123_94_B_, reqexams8_ACTIVE10N_DATE AS BIL_EX25_94_B_, reqexams8_CHANGED_USER_ID AS BIL_EX25_94_B_, reqexams8_CHANGED_USER_ID AS CHANGED_63_84_B_, reqexams8_CHANGED_USER_ID AS CHANGED_734_B_, reqexams8_CHANGED_USER_ID AS CHANGED_734_B_, reqexams8_CHANGED_USER_ID AS CHANGED_734_B_, reqexams8_CHANGED_USER_ID AS CHANGED_63_8_B_, reqexams8_CHANGED_USER_ID AS CHANGED_734_B_, reqexams8_CHANGED_USER_ID AS CHANGED_734_B_, reqexams8_CHANGED_USER_ID AS CHANGED_734_B_, reqexams8_CHANGEQUENCE AS EXAM_SEQUENCE reqexams8_LEXM_SEQUENCE AS EXAM_SEQUENCE reqexams8_N_UD AS TAUSAND_74_B_, reqexams8_N_UD AS RESONDE AS EXAM_SEQUENCE reqexams8_N_UD AS RESONDE AS EXAMSED_94_B_, reqexams8_R_RESON AS RESONSIG 54_8_, reqexams8_R_RESON AS STAUS_94_B_, reqexams8_R_RESON_ID AS SECONESIG 48_8_,
<pre>twepisode3_REPETITION_REASON_ID dtwepisode3_REPETITION_REASON_ID dtwepisode3_TO_RENAT dtwepisode3_TO_RENAT dtwepisode3_TO_REPEAT dtwepisode3_VALIDATED dtwepisode3_VALIDATED tbwexam4_CANANE_DATE tbwexam4_CANANE_DATE tbwexam4_CANANE_DATE tbwexam4_CANANE_ANT tbwexam4_CANNE_ANT t</pre>	As NeverT13 33.3, As ReverT13 33.3, As SetClM13 33.3, As SPECLM13 33.3, As T0, PRIV20 53.3, As T0, PRIV20 53.3, As T0, Revez1 53.3, As ReverT13 53.4, As Scribert12 488.5, As ReverT13	requisitio710 AS ID1_92_1_, reqexams8_ACTIVE AS AUTIVE2_94_B_, reqexams8_ACTIVE AS AUTIVE2_94_B_, reqexams8_ACTIVE AS AUTIVE123_94_B_, reqexams8_ACTIVE AS AUTIVE123_94_B_, reqexams8_ACTIVE AS AUTIVE123_94_B_, reqexams8_AUTIVARIZATION_AUTIE AS AUTIVE123_94_B_, reqexams8_AUTIVARIZATION_AUTIE AS AUTIVE125_94_B_, reqexams8_B_BLIL_EXEX_PAND AS BIL_EXE3_94_B_, reqexams8_B_CHANGED_DATE AS CHANGED_6_94_B_, reqexams8_CREATION_DATE AS CHANGED_6_94_B_, reqexams8_CREATION_DATE AS CHANGED_94_B_, reqexams8_CREATION_DATE AS EXAM_PRID_94_B_, reqexams8_CREATION_USER_ID AS EXAM_PRID_94_B_, reqexams8_CREATION_USER_ID AS EXAM_PRID_94_B_, reqexams8_CREATION_USER_ID AS EXAM_PRID_94_B_, reqexams8_LAM_TOD AS EXAM_PRID_94_B_, reqexams8_LEAM_ROFILE_ID AS EXAM_PRID_94_B_, reqexams8_LAM_FORTULE_ID AS EXAM_PRID_94_B_, reqexams8_LONGNAMACE_VAUE_TO_BENEFICLARY AS INSURANCE_VAUE_TO_BENEFICLARY REQUISITION_ID AS EXAM_PRID_94_B_, <t< td=""></t<>
<pre>twepisode3REPETITION_REASON_ID dtwepisode3SPECIMEN_ID dtwepisode3TO_RENAT dtwepisode3TO_RENAT dtwepisode3TO_REPEAT dtwepisode3TO_REPEAT dtwepisode3UNGENCY_ID dtwepisode3UNGENCY_ID dtwepisode3UNGENCY_ID dtwepisode3UNGENCY_ID tbwexam4CHANGE_USER_ID tbwexam4CHANGE_USER_ID tbwexam4CANADE_USER_ID tbwexam4CANADE_USER_ID tbwexam4CANADE_USER_ID tbwexam4CANADE_USER_ID tbwexam4CANADE_USER_ID tbwexam4CANADE_USER_ID tbwexam4CANADE_USER_ID tbwexam4CANADE_USER_ID tbwexam4CANADE_USER_ID tbwexam4CANADE_USER_ID tbwexam4CANADE_USER_ID tbwexam4CANADE_USER_ID tbwexam4CANADE_USER_ID tbwexam4CANADE_ID tbwexam4CANADE_ID tbwexam4CANADE_ID tbwexam4CANADE_ID tbwexam4CANADE_ID tbwexam4CANADE_ID tbwexam4SCISIDGRCM_ID tbwexa</pre>	AS REPETITE 153-3 AS REPETITE 153-3 AS SPECIMED 353_, AS 50 PATU20 533_, AS 10 PATU20 533_, AS 10 PATU20 533_, AS 10 PATU20 533_, AS 01 PATU20 530_, AS 01 PAT	requisitio710 AS TD1_92_1_, reqexams8_ACTIVE AS AUTHORIZ48_a_, reqexams8_ACTIVE AS AUTHORIZ3.94.8_, reqexams8_ACTIVE AS AUTHORIZ3.94.8_, reqexams8_ACTIVE AS AUTHORIZ3.94.8_, reqexams8_ACTIVE AS AUTHORIZ3.94.8_, reqexams8_ACTIVORIZATION_DATE AS AUTHORIZ3.94.8_, reqexams8_BLLL_EXEPTION_ID AS BILL_EXES.94.8_, reqexams8_CHANGED_USER_ID AS BILL_EXES.94.8_, reqexams8_CHANGED_USER_ID AS CHANGED.05.48_8_, reqexams8_CREATION_DATE AS CHANGED.79.4_8_, reqexams8_CREATION_USER_ID AS CREATION_94.8_, reqexams8_CREATION_USER_ID AS CREATION_94.8_, reqexams8_CREATION_USER_ID AS CREATION_94.8_, reqexams8_CREATION_USER_ID AS CREATION_94.8_, reqexams8_CREATION_USER_ID AS EVAN_D09.4_8_, reqexams8_CREATION_USER_ID AS EVAN_D19.4_8_, reqexams8_N_DELETED_84.8_, AS EVAN_D19.4_8_, reqexams8_LXAW_PROFILE_ID AS EVAN_D19.4_8_, reqexams8_LXAW_PROFILE_VALE_TO_BENFEICHAW AS INSURANCE 94.8_, reqexams8_N_USURANCE VALUE TO_BENFEICHAW AS INSURANCE, 94.8_, reqexams8_LXAW_PROFILE_TO_BENFEICHAW AS INSURANCE, 94.8_, reqexams8_N_USURANCE VALUE TO_BENFEICHAW AS INSURANCE, 94.8_, reqexams8_N_USURANCE VALUE TO_BE
<pre>twepisode3REPETITION_REASON_ID dtwepisode3SPECIMEN_ID dtwepisode3TO_REPEAT dtwepisode3TO_REPEAT dtwepisode3TO_REPEAT dtwepisode3UORENCY_ID dtwepisode3UORENCY_ID dtwepisode3UORENCY_ID dtwepisode3UORENCY_ID tbwexam4CHANGE_USER_ID tbwexam4CHANGE_USER_ID tbwexam4CHANGE_USER_ID tbwexam4CODE tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_SEQ_ID tbwexam4CAM_ID tbwexam4CAM_ID tbwexam4CSISUBGROUP_ID tbwexam4SCISUBGROUP_ID tbwexam4CSISUBGROUP_ID tbwexversi5CAM&RE_ID tbwevversi5CAM&RE_ID tbwevversi5CAM&RE_ID tbwevversi5CAM&RE_ID tbwevversi5EX_AREA_ID tbwevversi5EX_AREA_ID tbwevversi5EX_AREA_ID tbwevversi5EX_AREA_ID tbwevversi5EX_AREA_ID tbwevversi5EX_AREA_ID tbwevversi5EX_CONTON_TIME tbwevversi5EX_CONTON_TIME tbwevversi5EX_CONTON_TIME tbwevversi5EX_CONTON_TIME tbwevversi5EX_CONTON_TIME tbwevversi5EX_RID tbw</pre>	As Decomes 2 As Repertmans 2 As Several 2 As Several 2 As UP Company 2 As To P. NLOW 2 As To P. NLOW 2 As To P. NLOW 2 As To P. NLOW 2 As UP Company 2	requisitio710 AS ID1_92_1_, reqexams8_ACTIVE ACTIVE2_94_B_, reqexams8_CHANGED_DATE ACTANEED_6_94_B_, reqexams8_CHANGED_DATE ACTANEED_6_94_B_, reqexams8_CHANGED_DATE ACTANEED_6_94_B_, reqexams8_CHANGED_DATE ACTANEED_6_94_B_, reqexams8_CHANGED_DATE ACTANEED_7_94_B_, reqexams8_CHANGED_DATE ACTANEED_7_94_B_, reqexams8_CHANGED_USER_ID ACTANEED_6_94_B_, reqexams8_CHANGED_USER_ID ACTANEED_6_94_B_, reqexams8_CHANGED_USER_ID ACTANEED_6_94_B_, reqexams8_DELFETD_PARENT AS EXAM_D19_46_B_, reqexams8_LEXM_DD AS EXAM_D19_46_B_, reqexams8_LEXM_DD AS EXAM_D19_46_B_, reqexams8_INS_NANCE_VALUE_TD_BENFFICIARY AS INSURANCE_VALUE_TD_BENFFICIARY reqexams8_INS_NANCE_VALUE_TD_BENFFICIARY AS INSURANEE_VALUE_TO_BENFFICIARY reqexams8_R_INSURANCE_VALUE_TD_BENFFICIARY AS INSURANIE_44_B_, reqexams8_INS_INANCE_VALUE_TD_BENFFICIARY
<pre>twepisode3_REPETITION_REASON_ID dtwepisode3_REPETITION_REASON_ID dtwepisode3_TO_REPEAT dtwepisode3_TO_REPEAT dtwepisode3_TO_REPEAT dtwepisode3_UNGENCY_ID dtwepisode3_UNGENCY_ID dtwepisode3_UNGENCY_ID tbwexam4_CANANE_DATED tbwexam4_CANANE_DATE tbwexam4_CANANE_DATE tbwexam4_CODE tbwexam4_CODE tbwexam4_CANANEPEATEN tbwexam5_CANANEPEATEN tbwexam5_CA</pre>	AS NEPETTI3 53.3, AS REPETTI3 53.3, AS SPECIME19 53.3, AS TO, PRIVED 53.3, AS TO, PRIVED 53.3, AS TO, REPE21 53.3, AS TRANSMEY 53.3, AS REPETTI3 53.3, AS REPETTI3 53.3, AS REPETTI3 53.3, AS REPETTI3 53.3, AS REPETTI3 53.3, AS REPETTI3 53.3, AS AS CODE 3.388.4, AS CODE 1.10.388.4, AS CODE 1.10.388.4, AS CODE 1.10.388.4, AS PLANED 3.388.4, AS SCIGOLUIS 3.384.4, AS SCIGOLUIS 3.384.4, AS ACCEDIT2 4.385.5, AS CIACEDIT2 4.485.5, AS ACCEDIT2 4.485.5, AS CIACEDIT2 4.498.5, AS CIACEDIT2 4.498.5,	<pre>reqexissioniD AS ID1_92, reqexams8_ACTIVE AS ACTIVE_94_8_, reqexams8_ACTIVE AS AUTHORIZATION_AUTHOR_NAME AS AUTHORIZA_94_8_, reqexams8_ACTIVALION_AUTHOR_NAME AS AUTHORIZA_94_8_, reqexams8_ACTIVALION_DATE AS AUTHORIZA_94_8_, reqexams8_BILL_EXEMPTION_ID AS BILL_REC_94_8_, reqexams8_BILL_REC_EXAM_ID AS BILL_REC_94_8_, reqexams8_CHANGED_DATE AS CHANGED_94_8_, reqexams8_CHANGED_DATE AS CHANGED_94_8_, reqexams8_CHANGED_USER_ID AS ENAMINE_94_8_, reqexams8_CHANGED_USER_ID AS ENAMINE_94_8_, reqexams8_CHANGED_USER_ID AS ENAMINE_94_8_, reqexams8_CHANGEDUSER_ID AS ENAMINE_94_8_, reqexams8_CHANGEDUSER_ID AS ENAMINE_94_8_, reqexams8_CHANGEDUSER_ID AS ENAMINE_94_8_, reqexams8_CHANGEDUSER_ID BENEFICIARY FUNCTION AND AND AND AND AND AND AND AND AND AN</pre>
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<pre>twepisode3REPETITION_REASON_ID dtwepisode3TO_PENIT dtwepisode3TO_REPEAT dtwepisode3TO_REPEAT dtwepisode3TO_REPEAT dtwepisode3TO_REPEAT dtwepisode3URGENCY_ID dtwepisode3URGENCY_ID dtwepisode3URGENCY_ID dtwepisode3URGENCY_ID dtwepisode3URGENCY_ID tbwexam4CAMNEE_USER_ID tbwexam4CAMNEI tbwexam4CAMNEI tbwexam4CAMNEI tbwexam4CAMNEI tbwexam4CAMNEI tbwexam4CAMNEI tbwexam4CAMNEI tbwexam4CAMNEI tbwexam4CANNEI tbwexam4CANNEI tbwexam4CANNEI tbwexam4CANNEI tbwexam4SCISUBGROUP_ID tbwexam4SCISUBGROU</pre>	AS NEPETTI3 53.3., AS NEPETTI3 53.3., AS SPECIME19 53.3., AS TO, PRIVED 53.3., AS TO, PRIVED 53.3., AS TO, REPE21 53.3., AS RANGENCY32 53.3., AS REGENCY32 53.3., AS REGENCY32 53.3., AS REGENCY32 53.3., AS REGENCY32 53.3., AS REGENCY32 53.3., AS AS NEVEL 2388.4., AS CODE4.388.4., AS CODE4.388.4., AS CODE4.388.4., AS CODE4.388.4., AS CODE4.388.4., AS EXASTED 5388.4., AS EXASTED 5388.4., AS EXASTED 5388.4., AS EXASTED 5388.4., AS EXASTED 5388.4., AS CODE7.118.388.4., AS DOER 118.388.4., AS DOER 118.388.4., AS ODEF 118.388.4., AS PLANED 388.4., AS SCIGNOLI2 388.4., AS SCIGNOLI2 388.4., AS SCIGNOLI2 388.4., AS SCIGNOLI2 388.4., AS SCIGNOLI2 388.4., AS SCIGNOLI2 388.4., AS ACKEDIT2.488.5., AS CIGNOLI2 388.4., AS ACKEDIT2.488.5., AS EXASTED 4488.5., AS EXASTED 44	requisitio710 AS ID1_92_1_, reqexams8ACTIVE AS ACTIVE_94_B_, reqexams8ACTIVE AS AUTHORIZA 94_B_, reqexams8ACTIVE ADMINER AS AUTHORIZA 94_B_, reqexams8ACTIVORIZATION_AUTHOR_NAME AS AUTHORIZA 94_B_, reqexams8ACTIVORIZATION_DATE AS AUTHORIZA 94_B_, reqexams8CHANGED_DATE AS AUTHORIZA 94_B_, reqexams8CHANGED_DATE AS CHANGED_63_4_B_, reqexams8CHANGED_DATE AS CHANGED_63_4_B_, reqexams8CHANGED_DATE AS CHANGED_63_4_B_, reqexams8CHANGED_USER_ID AS ENAM_D34_8_B_, reqexams8CHANGEDUSER_ID AS ENAM_D34_8_B_, reqexams8CHANGEDUSER_ID AS ENAM_D34_8_B_, reqexams8CHANGEDUSER_ID AS ENAM_D34_8_B_, reqexams8CHAN_SEQUENCE AS ENAM_SE1_94_8_B_, reqexams8NEW_COLLECTION_TIME AS INSURANCE_94_8_B, reqexams8NEW_COLLECTION_TIME AS INSURANCE_94_8_B, reqexams8SINSURANCE_VALUE_TO_BENFFICIARY AS INSURANCE_94_8_B, reqexams8SINSURANCE_VALUE_TO_BENFFICIARY AS INSURANCE_94_8_B, reqexams8SINSURANCE_VALUE_TO_BENFFICIARY AS INSURANCE_94_8_B, reqexams8SINSURANCE_VALUE_TO_BENFFICIARY AS INSURANCE_94_8_B, reqexams8SINSURANCE_VALUE_TO_BENFFICIARY AS INSURANCE_94_8_B, reqexams8SINSURANCE_VALUE_TO_BENFFICIARY AS INSURANCE_94_8_B, reqexams8SINSURINGENCESON_TEXT AS STATUS_29_94_8_, reqexams8SINSURINGENCESON_TEXT AS STATUS_29_94_8_, reqexams8TST_RESULT_ID AS STATUS_29_94_8_, reqexams8TST_RESULT_ID AS TO_RESULT_94_8_, reqexams8TST_RESULT_1D AS TO_RESULT_94_8_, reqexams8TST_RESULT_1D AS TO_RESULT_94_8_, reqexams8TST_RESULT_1D AS TO_RESULT_94_8_, reqexams8TST_RESULT_1D AS TO_RESULT_94_8_, reqexams8TST_RESULT_1D AS TO_RESULT_94_8_, reqexams8TST_RESULT_1D AS TO_RESULT_94_8_, reqexams8DIST_NCHANGE_RESON_TEXT AS TO_RESULT_94_8_, reqe
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Figure 8 - Query that performed slowly during the creation of a new episode.



3.2.2 Secure SQL Engine Integration Work

As explained above, some features required by CLINIdATA® are not currently supported by SafeCloud's Secure Database Server. The most prominent of the missing features are *savepoints* and BLOBs. Whenever these features are required, they are currently being bypassed as CLINIdATA® is able to work without them. In fact, as observable in the previous sections, it is already possible to test the application on top of the platform and identify the need for a thorough performance evaluation and optimization. The work on optimization will be a priority in the next project period. After the platform reaches the expected level of performance, integration work will focus on full support of the missing features.

Besides the need to bypass some currently incomplete features, the bulk of integration effort put into running CLINIdATA® on top of the SafeCloud platform is related with configuration and parametrization. The Secure Database Server is designed to work as an *application-agnostic* system aiming at supporting the majority of SQL-based workloads. However, in order to provide adequate privacy-preserving security levels it is necessary to identify, for a particular data schema, which data is sensitive and which data is not. This way, it is possible to instantiate the database with a set of privacy-preserving techniques that offer the ideal compromise between privacy and performance. As a consequence, in order to integrate CLINIdATA® with SafeCloud's Secure Database Server, Maxdata had to provide a list of the columns that were considered to contain sensitive data. With such list (depicted in Table 1), INESC TEC produced a configuration file that describes how CLINIdATA®'s database is going to be protected. This configuration file is depicted in Figure 9. As observable, the configuration file does not contain an explicit reference to the tables and columns defined previously. This is related to the fact that, at the trusted deployment, the SafeCloud SQL Engine translates SQL requests to secure NoSQL operations that will be performed at the untrusted deployment (third-party cloud infrastructure). This process also involves translating the SQL schema, including the name of the tables (Table 3) and columns (Table 4), to NoSQL ones.

SQL Table	NoSQL Table
DTW_PATIENT	R-maxdata-CLINIDATA_NEW-DTW_PATIENT
DTW_PATIENT_ID_BY_PATIENT	R-maxdata-CLINIDATA_NEW- DTW_PATIENT_ID_BY_PATIENT
DTW_TEST_RESULT	R-maxdata-CLINIDATA_NEW-DTW_TEST_RESULT

SQL Columns	NoSQL Columns (Column Family – Qualifier)
NAME	DQE-1
BIRTHDAY_STAMP	DQE-2
CALCULATE_BIRTHDAY_STAMP	DQE-3
SUBJECT_ID	DQE-2
NORMAL_VALUE	DQE-3

Table 3 - SQL to NoSQL t	table translation.
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SafeCloud

<pre><name>R-maxdata-CLINIDATA_NEW-DTW_PATIENT_ID_BY_PATIENT</name></pre>
<pre><key> <key> <key <key=""> <key> <key <key=""> <key> <key <key=""> <key <key="" <key<="" td=""></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></key></pre>
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Figure 9 – SafeCloud Configuration File.

The translated names and qualifiers are then used to compile the configuration file. Such file is used by the database to ensure that queries on sensitive data are always translated into queries that preserve such data private even when data is stored and processed at the untrusted deployment (third-party cloud infrastructure). The system was also designed to allow the definition of a privacy level by default in order to avoid specifying a privacy-preserving technique per table when, potentially, there are thousands of them. This way it is possible to focus the configuration work on data that is the most sensitive and important to protect.



4 Demonstration Procedure

This section presents a set of demonstration procedures that show in practice how the integration described in the previous section were used to implement a set of reference use cases described in Deliverable D5.2.

4.1 Insert exam order

This demonstration procedure is related to the use-case 3.2.3.3 described in the Deliverable D5.1.

After the insertion of the user credentials and a successful login on the application (Figure 10), the main screen appears to the user. As we can see on Figure 11, it looks like a classic desktop environment, with a start menu, some shortcuts, a taskbar, clock, message system and help system.

At a typical laboratory, the circuit starts with the insertion of an exam order, usually done by an administrative at the reception that searches for a given patient when he arrives at the lab.

The first step is to search for the user in the system, for instance "John Doe" (Figure 12) and then select it on the next screen that shows the search results (Figure 13). On Figure 14 we can see some data about the patient already filled on the screen of the option used to register new patients on the system. This information was gathered on a previous visit and it is used by default for the creation of a new order.

The user can then proceed to the insertion of an exam, selecting it on the text field on the bottom of the screen and after the insertion it appears on the grid that is on the right side of the screen (Figure 15). Finally, the user clicks on the button "Save" to insert the new order and gets a message saying that the order was successfully saved (Figure 16). Notice that the saved order has now the id 71 (marked with a red box on Figure 16). This id will be used to identify the order inside the laboratory.

		CLINIDATA® eHealthlone solution
CLINIGATA© User Password Unit Change Pass	V1.2.10 - Authentication	
		maxdata

Figure 10 - CLINIdATA® Login Screen.

SafeCloud



Figure 11 - CLINIdATA[®] main screen (no icons shown due to missing BLOB support by SafeCloud SQ1).

Patient Search	
Patients	
Patient name	John Doe Solution
Gender	X 💌
Birthdate	yyyy-MM-dd
Patient Lab Id	
	() ^r Search Cancel
승규는 승규는 것이 것으로 가지 않는다.	
	maxaata
	S () 12:59:35

Figure 12 - Option used to search for a patient.



					(D
Patient Search - Patients				(2000	12 1 73 1 1)	8
Name	Patient Id	Birthdate	Last Order	Last order date	Age	
				2011-01-27		solution
Page 1 de 1 🐗 🔺 🕨 🌾					1-1 de	
New patient					Searc	
					max	data
					\otimes	R R 12:45:23

Figure 13 - Search results for the patient "John Doe".

🔁 Order Entry							(20003 1 74 1 1)	
Patier	nt ID Order	ID	Patient name	Age	Origin		Billing status	
153	36 *		John Doe	-	Amazing Lab		Pending	
General	Req. 1: Initial					Exam code	Exam name Qua	intity
	Patient name	John Doe						
Identification	Birthdate	yyyy-MM-dd						
Oninin and	Gender				•			
address	Origin	(AO) Amazing Lab x			•			
Billing	Insurance Entity	(1) MEDICARE x			•			
	Insurance Plan	(1) SILVER x			-			
Clinical data	Exemption				•			
	Urgency				-			
Exams	Doctor				•			
	Clinical Information							
Booking	Result suggested date	yyyy-MM-dd HH:mm						
Sample	Health Unit				•			
Collection								
Samples								
Patient Reports						Prescription Views : Admin.	Financ. Techn.	Exam Status
Additional Info	Delivery Billing extras							
Exams			Ok Sections Pane	els New Req. Cred	lential		Cance	el 🔚 Save
								13:00:15

Figure 14 – "Order Entry" creation screen.

🔓 Order Entry							(20003 1 74	
Patier	nt ID Order	· ID	Patient name	Age	Origin		Billing sta	atus
153	36 *		John Doe	-	Amazing Lab		Pendir	Ig
Conoral	Req. 1: Initial					Exam code	Exam name	Quantity
General	Patient name	John Doe				тс	TOTAL CHOLES	1
Identification	Birthdate	yyyy-MM-dd						
Oninin and	Gender				•			
address	Origin	(AO) Amazing Lab x			*			
Billing	Insurance Entity	(1) MEDICARE x			-			
bining	Insurance Plan [*]	(1) SILVER x			-			
Clinical data	Exemption				•			
	Urgency				-			
Exams	Doctor				•			
	Clinical Information							
Booking	Result suggested date*	2017-07-29 00:00						
Sam	Health Unit				-			
Collec (TC) TC	ITAL <u>CHOLESTER</u> OL							
Patient R						Prescription Del Views : Admin.	ete Financ. Techn.	Exam Status
Additiona								
Exams choles	ter		▼ Ok Sections Panels	New Req. Cre	edential		Xc	ancel 🖪 Save
								0 1 3 2 0 2 2 0 8

Figure 15 - Exam insertion on the "Order Entry" option.

Crder Entry								(20003 1 7	
Patier	nt ID	Order ID		Patient name	Age	Origin		Billing st	atus
153	36	71		John Doe	-	Amazing Lab		Calcula	ited
General	Req. 1: Inicial						Exam code	Exam name	Quantity
	Patient r	name* Joh	n Doe				10	TOTAL CHOLES	1
Identification	Birth	ndate							
Origin and	Ge	ender				~			
address	c	Origin [*] (AC) Amazing Lab			~			
Billing	Insurance E	Entity * (1)	MEDICARE			~			
	Insurance	Plan [★] (1)	SILVER	i Info	0	~			
Clinical data	Exem	ption			Order was saved.	~			
	Urg	leucy				~			
Exams	D	octor			✓ ок	~			
	Clinical Inform	ation							
Booking	Result suggested	date [★] 201	17-07-29 00:00						
Sample	Health	Unit				~			
concetion									
Samples									
Patient Reports							Views : Admin.	Financ. Techn.	
Additional Info	Delivery Billing extra								
O D Brows	e type:) Order () Orig	gin 🔿 Patie	ent			1	Delete 🚺 Dupli	cate 🛛 🧪 Update	order 🗙 Finish
									Q I 4:09:05

Figure 16 - Order successfully saved.

4.2 Insert exam result

This demonstration procedure is related to the use-case 3.2.3.3 described in the Deliverable D5.2.

After the creation of the exam order, the doctor at the laboratory can proceed with the insertion of the exam results on the system, whenever they're ready. To do that, the doctor uses the "Results manual insertion" option to search for the order with the id 71 (Figure 17). After the search, the screen refreshes with some information about the patient and



with new fields to insert the result values. In this case, everything's ok with the patient and the doctor appoints it on the "Exam comments" field, after filling the result for the total cholesterol that was 80 mg/dl (Figure 18). Finally, the user clicks on the "Save button" and the title of the exam is marked with the orange colour, that matches the colour used for the technical validation as it is visible on the bottom of the screen (Figure 19).

_				(1	
Results manu: Exams Order Id Sample	X 71 Search	Name Urgency NIP	Origin	(20004101111111) Gender Order		A [®] on
Orders Order Id Page de Exams Exam Id Exam c	ent name					
0 -/- 0	PRIM TECH PRELM	MEDIC BIOPAT		Save Save	× Balt	'n
_						1:10:36

Figure 17 - "Results insertion" option.

Results manual insertion Exams X Order Id Sample List Sear	Name John Doe Urgency Origin Amazing Lab NIP 1536	(2000410[111]) • • • • • • • • • • • • • • • • • • •
Orders Order Id Page John Doe Page Exams Exam Id Exam Id TC TOTAL CHOLESTEROL	TOTAL CHOLESTEROL Image: Second sec	
O -/- O PRIM TECH PREL	MEDIC BIOPAT	maxdata

Figure 18 - Result insertion for the exam "Total Cholesterol".



B Results manual insertion Exams X Order Id	Name John Doe Urgency Origin Amazing Lab NIP 1536	(2000410111111) • • • • • • • • • • • • • • • •
Orders Order Id Patient name 71 John Doe Page 1 de 1 4 Exams Exam Id Exam c Exam Id Exam name TC TOTAL CHOLESTEROL	TOTAL CHOLESTEROL Image: Constraint of the state of the	
O -/- O PRIM TECH PRELM	MEDIC BIOPAT	maxdata

Figure 19 - Result saved for the exam "Total Cholesterol".

4.3 Access exam result

This demonstration procedure is related to the use-case 3.2.3.3 described in the Deliverable D5.2.

With the result inserted, another doctor on the laboratory could then also validate the result so it could have a higher level of validation, for instance medical or biopathological validation (Figure 20). To validate all the exams the user could click on the button "Validate all" on the bottom of the screen and the name of the exam ("Total Cholesterol") would now be highlighted with the color blue (Figure 21).

On this option the user can also send the exam for repetition, for instance if he finds something wrong on the values.

4.4 Access production control

This demonstration procedure is related to the use-case 3.2.3.3 described in the Deliverable D5.2.

In order to get an overview of the number of exams already with a specific type of validation, it is possible to configure an option on CLINIdATA® to get this type of data. For instance, using the production control option the doctor could get all the orders registered on the current day, with results also inserted in the current day and with primary or technical validation (Figure 22). Clicking then on the "Search" button it is visible on the results that the order 71 was returned (Figure 23) because it matches with the previous search parameters. The doctor could then click on the "Details" that is on the "Exams" column in order to check the exams that were inserted on the corresponding order (Figure 24).



B Results valida	tion				(20086)0		
Exams Order Id Sample	X	Virgency NIF	 John Doe 1536 	Origin Amazing	Gene J Lab Ore	der 71	∖ A [®] ution
Crders Order Maine	Se nt name	arch	SCIGROUP test				
71 John Page 1 de Exams Exam d Exam kd Exam c	1 Doe 1 ∢∢ ∢ ▷ ▷ ♦ ♦ Exam name TOTAL CHOLESTEROL		Total Cholester i i i i i i i *Total Cholesterol Exam comment	80.0 0k	mg/dL		
0.1/1.0			T Develop	Example distance of the	T	ekdeteel) (Tredete	
	FRIM TECH M	BIOPA	Results	Exams status C	incervalidation Validate V	naxd	ata

Figure 20 - "Results validation" option.

Exams X Order Id Sample List Search Orders Order Id Patient Ia SECIGROUP test Corder Id Page 1 of 1 44 4 >> >47 Exams Exams Exams Exams Exams Exams Image 1 Image 1 <t< th=""><th>Name John Doe Order Id Order Id Sample Order Id List Search Orders Order Id Order Id Page 1 of 1 4(4 >)) 4/2 Exams Exams Exams Exams TC TOTAL CHOLESTEROL I I Order Id I</th><th>Exams X Order Id Bample List Search Orderss Order Id Order Id Search Orderss SciCGROUP Torder Id Patient Id John Doe SCICGROUP test SciCGROUP Test TorAL CHOLESTEROL Page 1 of 1 4(4 >> >> 4/2) Som name TC TOTAL CHOLESTEROL Boam del Exams B0.0 TC TOTAL CHOLESTEROL Ok Exams TC TOTAL CHOLESTEROL 0 1/1 PRIM TECH PRELM MEDIC BIOPAT Readies Exams status Cancel validation Validate all Update</th><th>Results validation</th><th></th><th></th><th></th></t<>	Name John Doe Order Id Order Id Sample Order Id List Search Orders Order Id Order Id Page 1 of 1 4(4 >)) 4/2 Exams Exams Exams Exams TC TOTAL CHOLESTEROL I I Order Id I	Exams X Order Id Bample List Search Orderss Order Id Order Id Search Orderss SciCGROUP Torder Id Patient Id John Doe SCICGROUP test SciCGROUP Test TorAL CHOLESTEROL Page 1 of 1 4(4 >> >> 4/2) Som name TC TOTAL CHOLESTEROL Boam del Exams B0.0 TC TOTAL CHOLESTEROL Ok Exams TC TOTAL CHOLESTEROL 0 1/1 PRIM TECH PRELM MEDIC BIOPAT Readies Exams status Cancel validation Validate all Update	Results validation			
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	O 1/1 O PRIM TECH PRELM MEDIC BIOPAT Results Exams status Cancel validation Validate all Update	O 1/1 O PRIM TECH PRELM MEDIC BIOPAT Results Exams status Cancel validation Validate all Update	Exam Id Exam c Exam name TC TOTAL CHOLESTEROL			

Figure 21 - Result with medical validation.

	(1)
	CLINIdATA®
Technical Validation Control	
Registered episodes Current day	
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	() ['] Search Kit
	maxdata
	🖂 💽 💽 16113141

Figure 22 - "Technical Validation Control" option.



Figure 23 - "Technical Validation control" search results.



Technical	Validation Control			(2000)111	
Origin Amazing Lab	Technical Valid	tation Control Name TOTAL CHOLESTEROL	Promised date 2017-09-13	(20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1) (20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1)1) (20003)1(100)(1) (20003)(100)(1) (20003)(1) (20003)(1)(100)(1) (20003)(1)(100)(1) (20003)(1)(100)(1) (20003)(1)(100)(1) (20003)(1)(100)(1) (20003)(100)(1)(100)(1) (20003)(100)(1)(100)(1) (20003)(100)(1)(100)(1)(100)(1) (20003)(100)(1)(100)(1)(100)(1)(100)(1) (20000)(1)(100)(1)(100)(100)(1)(100)(1)(1)(100)(1)(1	Analysis Detxnis
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Figure 24 - Details about the exams inserted on the order 71.

5 Conclusion

This document described a first prototype of the Maxdata SafeCloud-based healthcare platform.

The deliverable presented:

- An overview of the CLINIdATA® eHealth Solution.
- A description of the first version of the prototype and the integration done between CLINIdATA® and the Secure SQL Engine. This first version of the prototype covers 2 of the 3 scenarios presented in D5.2: the SaaS deployment and the hybrid deployment.
- A set of demonstration procedures that show in practice the implementation of a use-case described in Deliverable D5.2.

The next step will be to implement and demonstrate the remaining use cases, and improve the performance of the operations using the Secure SQL Engine. The final version of the prototype will be described in D5.6 (month 36).



6 References

[GDPR16] Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation) http://data.europa.eu/eli/reg/2016/679/oj

