

Sanitrace



Sanitrace Belgie - Sanitrace Belgique - Sanitrace Belgien

Sanitrace Luxembourgh - Sanitrace Luxemburg - Sanitrace Letzeburg



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This solution conforms to the standards of the EDS internet and webservices strategy and is built with the EDS.SystemLib VS2005 - release 8.2

EAI USER MANUAL

Version 1.23 Feb. 16, 2009

Document History

Version	Date	Change Log
1.0	Aug. 20, 2007	Minimal Version – Movements interface only as part of the Proof of Concept for connecting a Mobile Application to the Sanitrace EAI Services
1.1	Oct. 9, 2007	Initial ‘full’ Setup – draft version for discussion and basic implementation based on Slaughtering Structure Interfaces definition table
1.2	Nov. 3, 2007	Initial Design + Discussions VRV / ALV / Internal
1.3	Nov. 16, 2007	Major part of documentation Added some initial examples – a lot of examples still missing either completely or sometimes just missing the namespace definitions
1.4	Nov. 17, 2007	Coding Examples
1.5	Dec. 15, 2007	Feedback + Error Handling
1.6	Jan. 8, 2008	Non-Official copy to some users
1.7	Jan. 24, 2008	Feedback + Extra examples + Added ExportMovementNotificationOverview documentation + Update for new EEC Trasys guideline
1.8	Feb. 15, 2008	Change + Import
1.9	Mar. 15, 2008	FAQ extended Important Change – Animal Numbers in Export Interfaces from now on contain the check digit. To make them clearly visible the checkdigits are surrounded by spaces. E.g. BE 9 52395189 New fields in Export: <ul style="list-style-type: none">- SanitaryUnitOverviewRequest: FCLT_CDE- SanitaryUnitOverview: TUST_CDE- Party Overview: LNGE_CDE- Party Overview Request: TPH, VAT_NBR, RLM_RGS_NBR- AnimalImport: PPPU_CDE New Interface: Import Treatment Notification (to register)

		treatments such as bluetongue)
1.10	Apr. 30, 2008	Extra Documentation Web Service Stub Generation
1.11	May 15, 2008	Cosmetics
1.12	Jun. 4, 2008	<p>Erronously named NOTP_ID field has been renamed to NOTF_ID impacting the movement XML structures:</p> <ul style="list-style-type: none"> • AnimalMovementNotificationOverviewExportRequest • AnimalMovementNotificationOverviewExport • ChangeNotificationOverviewExportRequest • ChangeNotificationOverviewExport • MovementNotificationOverviewExportRequest • MovementNotificationOverviewExport
1.13	Jun. 10, 2008	Improved Example - Treatment Notification
1.14	Aug. 10, 2008	<p>FAQ Question19 added</p> <p>Agreement Overview Export interface Added</p> <p>Notification Status Import Added</p> <p>Additional geographical fields in Facility / San. Unit</p>
1.15	Sep. 1, 2008	<p>PopulationNotificationImport added</p> <p>RetaggingNotificationImport added</p>
1.16	Sep. 17, 2008	<p>LiablePartyOverviewExport added</p> <p>NotificationMovementImport extended with VRV data</p>
1.17	Oct. 1, 2008	<p>Party Type – PATP missing documentation documentation</p> <p>NOST Code: IVD -> IVLD</p> <p>ExportSanitaryUnit API-Break !!! Replaced the incorrect UPD_DTE_FRM/UPD_DTE_TO fields to the single UPD_DTE field</p> <p>AnimalDisposalType (Rendac) on AnimalImport and MovementNotificationImport</p> <p>Update Date Search on export movement /animal movement VRV fields in import animal</p> <p>Extra animal fields in notification overview export</p> <p>MarkingSeriesImport added</p> <p>Working On Behalf Of functionality</p>
1.18	Oct. 22, 2008	<ul style="list-style-type: none"> • Added the slaughter vignet number

		<p>(SLG_VGN_NBR) in the Animal Tag of the MovementNotificationImport-XML</p> <ul style="list-style-type: none"> Completed ANCO codes in the documentation + a rule has been added that in AnimalBirth registrations the SlaughteringCode DEAD cannot be used anymore... Added SNUN_CDE as search criteria for AnimalMovementNotificationOverview Added 2 Technical fields in interaction result defining the raw pattern string of the exceptions and the individual arguments. Technical application integration can than check on the pattern string and retrieve certain parameters directly
1.19	Nov. 5, 2008	<ul style="list-style-type: none"> New Interface: ExportMarkingSeries New Interface: ExportRetaggingNotification Export AnimalOverview API- Break !!! Removal of the incorrect field VRV_IND_CRD_FLG. The correct field VRV_IDN_CRD_FLG remains “Work On Behalf Of” Functionality added
1.20	Nov. 25, 2008	<ul style="list-style-type: none"> Security Documentation added UserLanguage documentation added
1.21	Dec. 15, 2008	<ul style="list-style-type: none"> Birth / Import Examples Refreshed incomplete drawings Update FAQ (Animal number formats, Security Token
1.22	Jan. 7, 2009	<ul style="list-style-type: none"> ExportProductionUnit Interface
1.23	Feb. 15, 2009	<ul style="list-style-type: none"> ExportWaterManureAllocation Interface

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Instructions to test the interfaces:

Introduction

XML and Web Services

The goal of web services is to allow external applications exchange data with the Sanitrace.Net application in a standardized, efficient and transparent manner. The data is formatted as XML and the interaction is in two ways: Information can be imported in the Sanitrace.Net-application (e.g. birth notifications, movements,...) and information can be exported / retrieved from the Sanitrace.Net application.

Sanitrace.Net provides three channels for exchanging XML: Formal SOAP 1.* web services, XML Streaming and manual XML uploads.

The Web Services are meant to complement other usage of the Sanitrace.Net application like online access, reports, etc...

The web services are in principle not meant to synchronize databases, although some possibilities obviously do exist. Please refer to the appendix for more information on synchronization alternatives...

Interface Overview

For the Sanitrace Renewal a number of formal interfaces have been defined for exchange of information (Imports of Movements, Export of Notifications, etc...).

The list underneath gives an overview of a first set of interfaces

Direction	#	Code	Name	Allows an external application to...
Export	S.01	EXAN	ExportAnimal	Retrieve a detailed insight of an animal (All characteristics, risk status, history,...)
Export	S.02	EXAMN	ExportAnimalMovementNotificationOverview	Retrieve an overview of movements (of a certain animal – from /to a certain facility ...)
Export	S.03	EXANO	ExportAnimalOverview	Retrieve an overview of animals and their key characteristics
Export	S.04	EXCNO	ExportChangeNotificationOverview	Retrieve an overview of changes to a Facility, a Sanitary Unit or Animal characteristics
Export	S.05	EXFAO	ExportFacilityOverview	Retrieve a general overview of facilities (name/address infor, reference numbers, liable party details,...)
Export	S.06	EXMVN	ExportMovementNotification	Retrieve a detailed insight in a movement (involved parties, involved facilities, involved animals,...)
Export	S.07	EXMV	ExportMovementNotificationOverview	Retrieve an overview of movements (of a certain animal – from /to a certain facility ...)
Export	S.08	EXPPO	ExportPartyOverview	Retrieve a general overview of Parties (Name/Address, Reference Numbers, Contact Data,...)
Export	S.09	EXPUO	ExportProductionUnitOverview	Retrieve a general overview of which exploitation units are used at which facilities / sanitary units
Export	S.10	EXSU	ExportSanitaryUnit	Retrieve detailed info about a sanitary unit (Location, Address, Sanitary Characteristics, Involved Parties, Production Unit Info, Marking Inventory, Capacity, Population Inventory, Risk Information, History Information...)
Export	S.11	EXSUO	ExportSanitaryUnitOverview	Retrieve a general overview of sanitary units and their key characteristics
Export	S.12	EXSLO	ExportSlaughteringOverview	Retrieve summary statistics of slaughtered animals
Import	S.13	IMANN	ImportAnimalNotification	Submit births or import records
Import	S.14	IMCHN	ImportChangeNotification	Submit changes on an Animal, a Facility, a Sanitary Unit or even a Party
Import	S.15	IMINN	ImportInventoryNotification	Submit marking inventory results
Import	S.16	IMMWN	ImportManureWaterNotification	Submit water/manure consumption statistics / corrections
Import	S.17	IMMVN	ImportMovementNotification	Submit a movement (e.g. Mobile App)
Import	S.18	IMPPN	ImportPopulationNotification	Submit population inventory results
Import	S.19	IMPUN	ImportProductionUnitNotification	Submit assignments of production units (exploitation units) to Sanitary Units
Import	S.20	IMRSN	ImportRiskNotification	Submit risk notifications, laboratory results,...

Import	S.20	IMRSN	ImportTreatmentNotification	Submit a treatment
Import	S.21	IMPST	ImportStatusUpdateNotification	Submit a status update notification – currently limited to treatments but extendable to other notifications
Export	S.22	EXAGR	ExportAgreementOverview	To test if certain parties have certain (active) agreements with certain other parties ;-)
Import	S.23	IMRTN	ImportRetaggingNotification	To import a retagging notification
Export	S.24	EXLPO	ExportLiablePartyOverview	To export information about veterinaries and other liable parties. This interface has limited access only because of privacy concerns
Import	S.25	IMPMS	ImportMarkingSeries	Submit a marking series allocation
Export	S.26	EXMSO	ExportMarkingSeriesOverview	To retrieve an overview of Marking Series / Marking Series Allocations
Export	S.27	EXRNO	ExportRetaggingNotificationOverview	To retrieve an overview of Retagging Notifications
Export	S.28	EXPUS	ExportProductionUnit	To retrieve all Animal allocations to any old or current production unit of a certain facility including the from and the to of these allocations
Export	S.29	EXWMA	ExportWaterManureAllocation	To retrieve all WaterManureAnimalAllocations to do a correct calculation of Water / Manure consumption

Schema Overview

The following table gives, for each interface an overview of the document types used as input and the document type obtained as a result.

Direction	#	Code	Name	Allows an external application to...	Input XML - Schema Name	Result XML - Schema Name
Export	S.01	EXAN	ExportAnimal	Retrieve a detailed insight of an animal (All characteristics, risk status, history,...)	AnimalExportRequest	AnimalExport
Export	S.02	EXAMN	ExportAnimalMovementNotificationOverview	Retrieve an overview of movements (of a certain animal - from /to a certain facility ...)	AnimalMovementNotificationOverviewExportRequest	AnimalMovementNotificationOverviewExport
Export	S.03	EXANO	ExportAnimalOverview	Retrieve an overview of animals and their key characteristics	AnimalOverviewExportRequest	AnimalOverviewExport
Export	S.04	EXCNO	ExportChangeNotificationOverview	Retrieve a general overview of facilities (name/address info, reference numbers, liable party details,...)	ChangeNotificationOverviewExportRequest	ChangeNotificationOverviewExport
Export	S.05	EXFAO	ExportFacilityOverview	Retrieve a general overview of facilities (name/address info, reference numbers, liable party details,...)	FacilityOverviewExportRequest	FacilityOverviewExport
Export	S.06	EXMVN	ExportMovementNotification	Retrieve a detailed insight in a movement (involved parties, involved facilities, involved animals,...)	MovementNotificationExportRequest	MovementNotificationExport
Export	S.07	EXMV	ExportMovementNotificationOverview	Retrieve an overview of movements (of a certain animal - from /to a certain facility ...)	MovementNotificationOverviewExportRequest	MovementNotificationOverviewExport
Export	S.08	EXPPO	ExportPartyOverview	Retrieve a general overview of Parties (Name/Address, Reference Numbers, Contact Data,...)	PartyOverviewExportRequest	PartyOverviewExport
Export	S.09	EXPUS	ExportProductionUnitOverview	Retrieve a general overview of which exploitation units are used at which facilities / sanitary units	ProductionUnitOverviewExportRequest	ProductionUnitOverviewExport
Export	S.10	EXSU	ExportSanitaryUnit	Retrieve detailed info about a sanitary unit (Location, Address, Sanitary Characteristics, Involved Parties, Production Unit Info, Marking Inventory, Capacity, Population Inventory, Risk Information, History Information...)	SanitaryUnitExportRequest	SanitaryUnitExport
Export	S.11	EXSUO	ExportSanitaryUnitOverview	Retrieve a general overview of sanitary units and their key characteristics	SanitaryUnitOverviewExportRequest	SanitaryUnitOverviewExport
Export	S.12	EXSLO	ExportSlaughterOverview	Retrieve summary statistics of slaughtered animals	SlaughteringOverviewExportRequest	SlaughteringOverviewExport
Import	S.13	IMANN	ImportAnimalNotification	Submit births or import records	AnimalNotificationImport	Interaction Result
Import	S.14	IMCHN	ImportChangeNotification	Submit changes on an Animal, a Facility, a Sanitary Unit or even a Party	ChangeNotificationImport	Interaction Result
Import	S.15	IMINN	ImportInventoryNotification	Submit marking inventory results	InventoryNotificationImport	Interaction Result
Import	S.16	IMMWN	ImportManureWaterNotification	Submit water/manure consumption statistics / corrections	ManureWaterNotificationImport	Interaction Result
Import	S.17	IMMVN	ImportMovementNotification	Submit a movement (e.g. Mobile App)	MovementNotificationImport	Interaction Result
Import	S.18	IMPPN	ImportPopulationNotification	Submit population inventory results	PopulationNotificationImport	Interaction Result
Import	S.19	IMPUN	ImportProductionUnitNotification	Submit assignments of production units (exploitation units) to Sanitary Units	ProductionUnitNotificationImport	Interaction Result
Import	S.20	IMRSN	ImportRiskNotification	Submit risk notifications, laboratory results,...	RiskNotificationImport	Interaction Result
Import	S.20	IMRSN	ImportTreatmentNotification	Submit a treatment	RiskNotificationImport	Interaction Result

Export Interfaces always have a ‘request’ document type as input. Import interfaces always return an interaction result as result.

All document types are described in the interface description.

Schema design conventions

As there is no Industry XML-standard for this type of information, we have defined a number of dedicated schema's. We tried to make this structure as consistent as possible and have made the following conventions

The following interface design conventions were followed:

- Full Schema definition in English
- Schema names + Structure names + Steering Attributes: Camel Case, No abbreviations
- Field Names:
 - o Abbreviation Based
 - o Upper Case
 - o 4 character abbreviations refer to a Coding Schema's or to a main Entity
 - E.g. ANTP_CDE denotes a code from the coding schema ANTP – Animal Type
 - E.g. FCLT_CDE refers to the code/id/main reference number of a Facility.
 - o Rest 3 (2) character abbreviations
 - o No indication of the type string / number except for dates (_DTE) or Booleans (_FLG)
 - o Fields as short as possible without jeopardizing readability
- Coding Schema's optimized for 'maximal stability'
 - o Coding schema's are NOT included in the schema (new codes could be added without change in the interface)
 - o Minimal validation rules in the schema (no input length definitions, no mandatory fields,...) -> All business logic on the Server
 - o Only standard data types: string, decimal (decimal point) , datetime
 - DateTime = YYYY-MM-DDTHH:MM:SS.FFF UCT –
 - Examples: 2007-03-01, 2007-03-01T10:04:12,
 - A Null date time can be represented as
0001-01-01T00:00:00
- Best practices
 - o Cardinality and structure complexity
 - 0 to limited rather than minimal 1 and maximal 3
 - Minimal Depth and Redundancy
 - Similar information requirements – Similar field names
 - o Import Interfaces
 - Multiple input records possible
 - Standardized interaction result
 - o Export Interfaces
 - Request = Single Line Search Criteria => but all criteria freely combinable
 - Result = list-result
 - o Standardized Header Info*

- All Headers
 - Username – name of the user on whose behalf the import is made – this user needs to have the adequate permissions as if he would register this action in the online
 - Security Token – Reserved if a stricter security is necessary in case of XML abuse
- Extra Header Info Export Results
 - Return Code – can be negative in case the search failed e.g. missing / incorrect search criteria ... 0 means all OK. A Return code 999 will mean that the result is truncated to the first 1000 results
 - Return Message – specification why the search failed
- Extra Header Info Export Request Steering Parameter
 - Result Index – ReservedPaging parameter in case of multiples of X000 of records (1 = first X000, 2 = second X000,...)

*) Remark that we use the Header of the MessageType for storing these special information elements. This is a preferred practice over e.g. the use of a special context element for the following reasons:

- Security and routing can be done on just the information in the header of the message without the need to “parse” the full message structure
- The header info can be extended e.g. with message version information again accessible without the need to “parse” the full message structure
- Conceptually the header info is NOT part of the message so it should not be part of a special context element

Schema Definitions

The attached zip file contains a collection of all schema's.



When discussing channel 1 we also explain how one can retrieve the XSD Schema's online...

Coding Schema's Overview

The following coding schema's have been used in the XML definition

AAST	AnimalAllocationStatus
AATP	AnimalAllocationType
ABFY	Beefiness
ABSP	AnimalBirthSpecifics
ADPR	AnimalDepartureReason
ADSP	AnimalDeliverySpecifics
AGEC	AgeCategory
AMQL	AnimalMeatQualityLabel
ANCO	AnimalCondition
ANCP	AnimalConception
ANDT	AnimalDisposalType
ANPR	AnimalPremiumCodes
ANRC	AnimalRace
ANRT	AnimalRaceType
ANSB	AnimalSubtype
ANTP	AnimalType
ANVN	Animal VRV name
ANVS	Animal VRV specification
ASRV	AnimalSurvival
BLST	BlockingStatus
CITY	CleaningFacilityType
CTRY	Country
DNAQ	DNA Quality Code
FATP	FacilityType
FLTP	FacilityLocationType
GNDR	Gender
HRTP	Hairtype
LNGE	Language
MSAL	Marking Series Allocation
NFTP	NotificationFacilityType
NOKD	NotificationKind
NORS	NotificationReason (Reserved for later usage)
NOST	NotificationStatus
NOTP	NotificationType
NPTP	NotificationPartyType
NRCR	NotificationRiskChangeReason
OILB	Order Item Label
OISN	Order Item Serie Numbering
OITP	Order Item Type
PATP	Party Type
PBRS	SanitaryUnitPassportBlockingReason
PBST	SanitaryUnitPassportBlockingStatus
PPPR	PassportPrintReason
PPPU	Passport Print Urgency
PRQU	Production Quality
PRWA	Production Ware
PUTP	ProductionUnitType

RIIT	RiskItemType
RIOG	RiskOrigin
RIQR	RiskQualificationReason
RIQU	RiskQualification
RIST	RiskStatus
RITP	RiskType
RSST	RiskCondition
SPTP	SanitaryUnitPartyType
SUHS	Sanitary Unit Housing
SUKD	SanitaryUnitKind
SUTP	SanitaryUnitType
TMLV	Treatment Notification Group level
TMTP	Type of treatment (e.g. Oral, Inoculation,...)
TITP	Type of treatment item (e.g. 1 st , 2 nd ,...)
TUBR	BlockingReason
TUST	TrackingUnitStatus
UNIT	Unit
VATP	VLMAnimalType
VEOR	Veterinary Organization

Main Entity Overview

The following 4 letter codes refer to a main entity. You have to know their key before you can access them

ANML	Animal
ANPP	AnimalPassport
ATRB	AnimalSanitaryUnitHistory
FALO	FacilityLocation
FCLT	Facility
MACT	MarkingCountryCode
MEDC	Medicine
NORS	NotificationRiskDetail
PATY	Party
PRUN	ProductionUnit
RIIM	RiskItem
SNUN	SanitaryUnit
TRGR	TrackingGroup
VIST	Visit
ORIM	Order Items (e.g. Retagging Earmarks)

Abbreviations

The following abbreviations have been used

ID	Identification	MCP	Municipality
TO	AgreementComment	MHR	Mother
AL1	Adress Line 1	MLK	Milk
AL2	Adress Line 2	MRK	Marking
ALT	Alternate	NAM	Name

ANA	Analyst	NBR	Number
ANM	Animal	NEW	New
BAG	Bag	NRS	Nourish
BLO	Block	NUR	Nursing
BNK	Bank	OCR	Occur
BOX	Box	OLD	Old
BRO	Brood	ORD	Order
BTH	Birth	ORI	Originator
CAG	Cage	PCR	Producer
CDE	Code	PLT	Plate
CDG	Check Digit	PNT	Print
CMN	Comment	POP	Population
CNT	Count	PPT	Passport
CRD	Card	PUR	Purchase
CRF	Certificate	QAL	Qualifications
CTY	City	RCV	Receive
DES	Description	RDC	Rendac
DLV	Delivery	REF	Reference
DNA	D.N.A.	RLM	Realm
DOC	Document	RGS	Register
DST	Destination	RQS	Request
DTE	Date	RSK	Risk
DTH	Death	RSP	Responsible
EMA	Email	SGP	Subgroup
END	End	SMP	Sample
EPO	Export	SRC	Search
EXT	Extension	STA	Status
FAX	Fax	STB	Stable
FEM	Female	STR	Street
FLG	Flag	SUC	Surface
FRM	From	TOT	Total
FRT	First	TPH	Telephone
GRP	Group	TRS	Transporter
GSM	GSM	TWO	Two
GTC	Genetic	UPD	Update
IDN	Identification	VAL	Value
IMO	Import	VAT	BTW-TVA
LBO	Lable	VGN	Vignette
LIA	Liabilities	VRS	Version
LIC	License	VRV	V.R.V.
LMS	Live	VTY	Veterinary
LST	Last	WGH	Weight
MAL	Male	YER	Year

MCP Municipality

ZIP Postal Code

Coding Schema's Content

The following is a list of accepted/returned user codes. Codes can be recognized as <USERGROUP>_CDE.

e.g. ADSP_CDE, AGEC_CDE, ...

AATP	Animal Allocation Type
SYS	System created animal allocation
OVR	System created overruling animal allocation
ABFY	Beefiness
MLK	0 Milk calf
LBFY	1 Low Beefiness
MBFY	2 Normal Beefiness
HBFY	3 Robust Beefiness
FAT	4 Double-muscled
ADPR	Animal Departure Reason
03	Ouderdom Age
04	Overtollig Surnuméraire
05	Afgemest/Slachtrijp Fini/pret à abattre
10	Been/Klaauwaandoening Affection d'un membre ou de l'onglon
11	Voedingsstoornissen Trouble alimentaire
12	Problemen rond het afkalven Problème de vêlage
13	Hoog celgetal/Mastitis D G Z
14	Vrouwbaarheid Fertilité
19	Overige gezondheid Autre problème sanitaire
20	Lage productie Faible production
21	Melkbaarheid En lactation
22	Slecht exterieur Mauvais extérieur
23	Gedrag Comportement
ADSP	AnimalDeliverySpecifics
EASY	Easily
NRML	Normal
DIFF	Difficult
CSRN	Caesarean
SWD	Sawed Off
OTH	Other Aid
AGEC	AgeCategory
LT18	Younger than 18 months (SHP,GOAT,DEER)
GE18	18 Months or Older (SHP,GOAT,DEER)
LT6	Younger than 6 months (BOV)
B612	Between 6 and 12 Months (BOV)
B1224	Between 12 and 24 Months (BOV)
GE24	24 Months or Older (BOV)
AGSA	Agreement Status
ACT	Active
STP	Stopped
SUSP	Suspended
DRF	Draft
CAN	Cancelled
IVD	Invalid
REJ	Rejected
AAWP	Active And Awaiting Printing
APRE	Approval Requested
APTP	Agreement Party Type
CVET	Surveillance Veterinary
CVETB	Backup Surveillance Veterinary

LNGE	Language
NL	Dutch
FR	French
GE	German
MSAL	Marking Series Allocation
AMANU	Allocation-manually
RDSTR	Recuperation for destruction
RSTCK	Recuperation for stock
UNUSD	Free
STOCK	Stock
ALROR	Reserved Origin Register
RECUP	Recuperation for Reserved Origin Register
ORGRA	Manual allocation from Origin Register
NFTP	NotificationFacilityType
SRC	Source
DST	Destination
PRT	Participating
ORI	Origin
NOKD	NotificationKind
ARV	Arrival
DPR	Departure
TRP	Transportation
R4	Change Hormone Status
R6	Loss
R10	Change Responsible Party
R12	Damaged
R22	Not commercialised Bovine
R45	Change Exploitation
R49	Change Main Location Sanitary unit
R51	Responsible Party Address Change
R52	Change Address Main Location
R53	Address Change
R17	Other Constations
R29	Internal change SU
R40	Export
BREG	Bovine Register
PGCNT	Pig Count
C1512	SGD 15 12 Count
CTR15	SGD Inventory control
VAC	Vaccination Aujeszky
BLUTG	Blue Tongue
IBR	IBR
NCD	NCD
AI	AI
	MMT
	MMT
	MMT
	PRNT
	RGPOP,BOV
	RGPOP,PIG
	RGPOP,SHP,GOAT,DEER
	RGPOP,SHP,GOAT,DEER
	TMT,PIG
	TMT,BOV, SHP, GOAT, DEER
	TMT,BOV
	TMT,PLTRY, BIRD
	TMT,PLTRY, BIRD

SALPL	Salmonella - plourty	TMT,PLTRY
SALPG	Salmonella - pigs	TMT,PIG
BVD	BVD	TMT,BOV
SCINJ	SC injection	TMT,BOV,SHP,GOAT,DEER,PLTRY,BIRD,PIG
IDINJ	ID injection	TMT,BOV,SHP,GOAT,DEER,PLTRY,BIRD,PIG
IMINJ	IM injection	TMT,BOV,SHP,GOAT,DEER,PLTRY,BIRD,PIG
ININJ	IN injection	TMT,BOV,SHP,GOAT,DEER,PLTRY,BIRD,PIG
IVINJ	IV injection	TMT,BOV,SHP,GOAT,DEER,PLTRY,BIRD,PIG
IMMIJ	IMM injection	TMT,BOV,SHP,GOAT,DEER,PLTRY,BIRD,PIG
IPINJ	IP injection	TMT,BOV,SHP,GOAT,DEER,PLTRY,BIRD,PIG
ORALW	Oral use - water	TMT,BOV,SHP,GOAT,DEER,PLTRY,BIRD,PIG
ORALF	Oral use -feed	TMT,BOV,SHP,GOAT,DEER,PLTRY,BIRD,PIG
POUR	Pour-on methode	TMT,BOV,SHP,GOAT,DEER,PLTRY,BIRD,PIG
BOLUS	Bolus	TMT,BOV,SHP,GOAT,DEER,PLTRY,BIRD,PIG
WASH	Wash /spray dip	TMT,BOV,SHP,GOAT,DEER,PLTRY,BIRD,PIG
INFUS	Infuus vochttherapie	TMT,BOV,SHP,GOAT,DEER,PLTRY,BIRD,PIG
ANMC	Animal Characteristics	CHNGE
ANMB	Animal Birth	CHNGE
ANRT	Animal Identification	CHNGE
ANLF	Animal Location	CHNGE
ANCI	Animal Attributes	CHNGE
ANMN	Animal Movements	CHNGE
ADNA	Animal DNA	CHNGE
AVRV	VRV	CHNGE
ADR	Address	CHNGE
NEW	New	CHNGE
ANID	Animal Identification	CHNGE
ANLO	Animal Location	CHNGE
GNOTC	General Notice	CHNGE

NOST	NotificationStatus
DRF	Draft
CAN	Cancelled
ENT	Entered
APT	Accepted
REJ	Rejected
IVLD	Invalid
NEW	New
SUBM	Submitted
ENTF	Entered Federation
IVDF	Invalid Federation
APTF	Accepted Federation
REJF	Rejected Federation
SPLTN	Split
SUBMF	Submitted Fed
NOTP	NotificationType
ARBTH	Birth
ARIMO	Import
MMEPO	Export
MMDPR	MovementDeparture
MMARV	MovementArrival
MMLOD	MovementLoad
MMUNL	MovementUnload
MMIMO	MovementImport
MMDPS	MovementDepartureSlaughterhouse
MMDPD	MovementDepartureDisposal
MMTRS	MovementTransportation
CHANM	ChangeAnimal
CHSNU	ChangeSanitaryUnit
CHFCY	ChangeFacility
CHPTY	ChangeParty
RISK	Risk
PTMMT	ParentMovement
PTCHG	ParentChange
PTARG	ParentAnimalRegistration
PTUNS	ParentUnspecific
MMDST	MovementArrivalDisposal
MMSLG	MovementArrivalSlaughterhouse
MMAGY	MovementArrivalAgency
RETAG	Retagging
PRNT	Reprint
TMT	Treatment
RGPOP	RegisterPopulation
RGWAT	RegisterWater
RGMAN	RegisterManure
RGORD	RegisterOrder
NFTP	NotificationFacilityType
SRC	Source
SDF	Destination
PRT	Participating
ORI	Origin

PPPU	Passport Print Urgency
NRM	Printing - not urgent
URG	Printing - urgent
NO	No printing

PRQU	Production Quality
STD	Standard
BIO	Biological Facility
LBL	Label
PDGRE	Pedigree / Selection
PVL1	PVL001 Belki
PVL2	PVL002 Hendrix
PVL3	PVL003 Quartes
PVL4	PVL004
PVL5	PVL005
PVL6	PVL006
PVL7	PVL007
PVL8	PVL008
PVL9	PVL009
PVL10	PVL010 Mechelse Koekoek
PVL11	PVL011 Coprobel
PVL12	PVL012 Val Dieu
PVL13	PVL013 P. Hesbaye
PVL14	PVL014 Coprosain
PVL15	PVL015 Coq Ard
PVL16	PVL016
PVL17	PVL017
PVL18	PVL018
PVL19	PVL019
PRWA	Production Ware
MEAT	Meat production
AISM	Artificial insemination
MILK	Milkproduction
NOCSP	No consumption objective
MIX	Mixed production
PGLET	Piglet-breed establishment
MGOAT	Goat Meat production
CELAY	Consumption eggs - lay establishment
HERL	Hatching egg - reproduction - lay
HERM	Hatching egg - reproduction - meat
HESL	Hatching egg - selection - lay
HESM	Hatching egg - selection - meat
BL	Breed - lay
BRL	Breed - reproduction - lay
BRM	Breed - reproduction - meat
BSL	Breed - selection - lay
BSM	Breed - selection- meat
GAME	Game set-out
FISH	Fish (meat)
CVR	Caviar
HNY	Honey
FUR	Fur
PUTP	ProductionUnitType
DFLT	Default
RIIT	RiskItemType
DISS	Disease

TITP	Treatment Item Type
VAC1	1st Vaccination
VAC2	2nd Vaccination
VACLT	Last Vaccination
VACRP	Repeated Vaccination
VACPR	Prime Vaccination
TRMT	Treatment
AFTCR	Aftercare
TMLV	Treatment Level
GRP	Group
INV	Individual
TMTP	Treatment Type
SCINJ	SC injection
IDINJ	ID injection
IMINJ	IM injection
ININJ	IN injection
IVINJ	IV injection
IMMIJ	IMM injection
IPINJ	IP injection
ORALW	Oral use - water
ORALF	Oral use -feed
POUR	Pour-on methode
BOLUS	Bolus
WASH	Wash /spray dip
INFUS	Infuus vochttherapie
TUBR	BlockingReason
SANR	Sanitary Reason
ADMIN	Administrative Reason
UNTRC	Untraceable
TUST	TrackingUnitStatus – Sanitary Units
ACT	Active
STP	Stopped
TUST	TrackingUnitStatus – Animals

INV	Bovine is in Sanitary Unit Inventory
MOV	Bovine moved from Sanitary Unit: Pp read
C03	Bovine arrived in Sanitary Unit other federation
AWAI	Bov arrived in SanitaryUnit awaiting purchase exam
C05	Bovine has arrived in new Sanitary Unit
RJCT	Purchase has been rejected in new Sanitary Unit
DDSLH	Bovine is dead: Slaughterhouse
XPRT	Bovine has been exported
DDKV	Bovine is dead: Meat Production
DDRDC	Bovine is dead : Rendac (destruction facility)
BLCK	Bovine blocked due to sale fr Facility H status
UNIT	Unit Codes
KG	KG
MG	MG
L	L
DL	DL
CL	CL
ML	ML
DOSIS	Dosis
G	G
TUBE	Tube
SET	4 Tubes
VATP	VLMAnimalType
MANC	Mestkalveren
MIYT1	Melkvee - vervangingsvee jonger dan 1 jaar
MAYT1	Mestvee - vervangingsvee jonger dan 1 jaar
MIB12	Melkvee - vervangingsvee tussen 1 en 2 jaar
MAB12	Mestvee - vervangingsvee tussen 1 en 2 jaar
MLKCW	Melkkoe
SCLCW	Zoogkoe
OTBOV	Andere runderen
VEOR	Veterinary Order
NL	Dutch Speaking Veterinary Order
FR	French Speaking Veterinary Order

Interface Definition

The archive underneath contains a more detailed description for the interfaces. For each interface we list it's direction, it's short description, it's input and output schemas, etc...

Interface EXAN – ExportAnimal

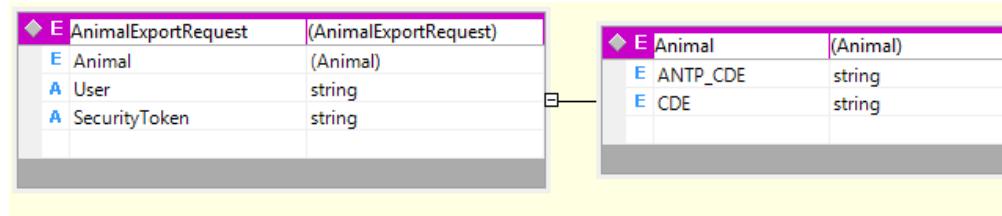
Direction: Export

Purpose: Retrieve a detailed insight of an animal (All characteristics, risk status, history,...)

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportAnimal

Input Schema: AnimalExportReq



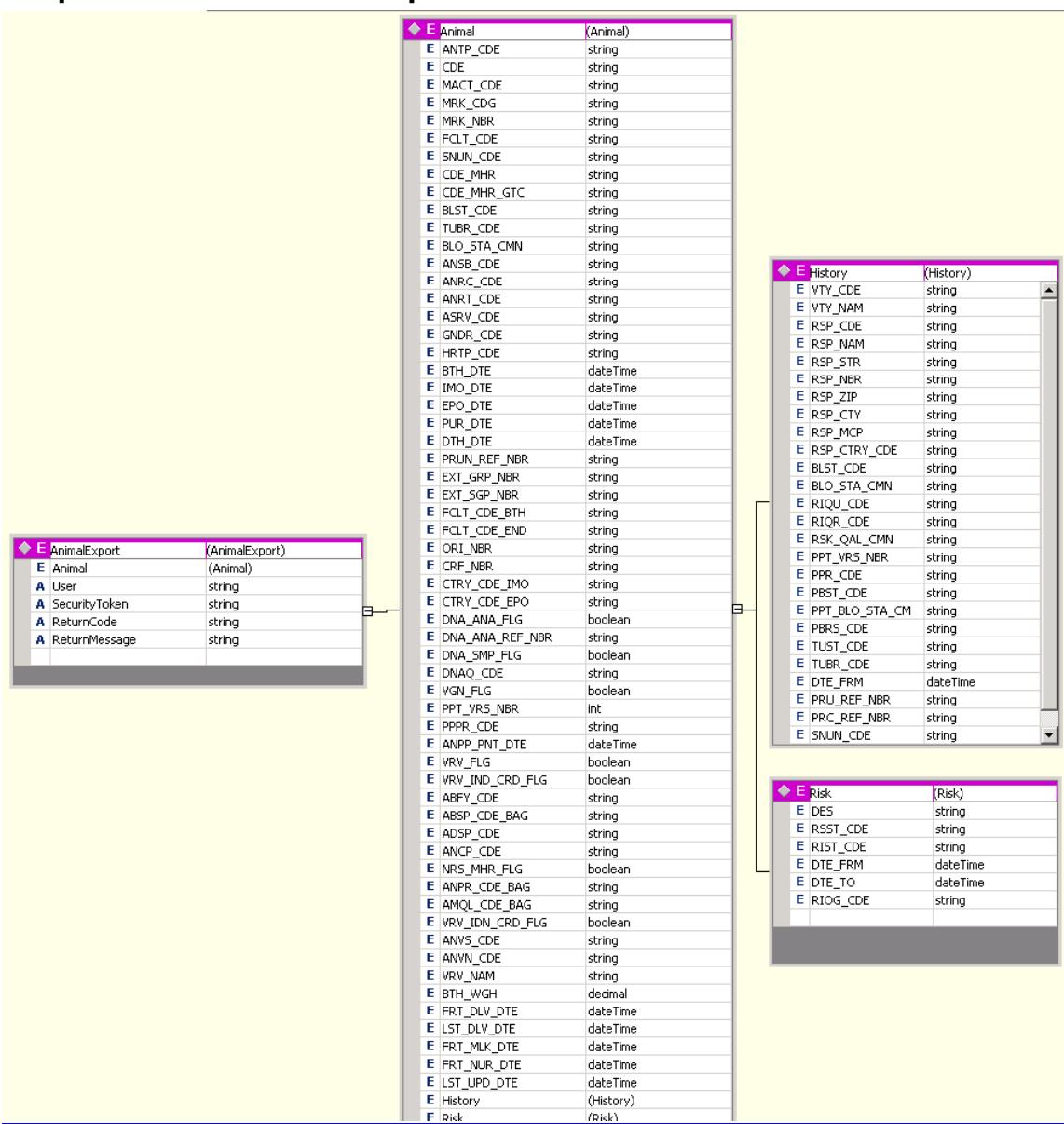
<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/AnimalExportRequestSchema>

XML Example(s)

Example EXAN-1 – Retrieve detailed animal information for two bovines, a local one and an imported one...

```
<AnimalExportRequest  
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/  
    AnimalExportRequestSchema" User="TESTXML" SecurityToken="N/A">  
    <Animal>  
        <ANTP_CDE>BOV</ANTP_CDE>  
        <CDE>BE12345678</CDE>  
    </Animal>  
    <Animal>  
        <ANTP_CDE>BOV</ANTP_CDE>  
        <CDE>NL456453543</CDE>  
    </Animal>  
</AnimalExportRequest>
```

Output Schema: AnimalExport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/AnimalExportSchema>

Interface EXAMN - ExportAnimalMovementNotificationOverview

Direction: Export

Purpose: Retrieve an overview of movements of individual animals -> from /to a certain facility ...) – This interface can also be used for herd animals yet will not have any animal details. Instead ExportMovementNotificationOverview can be used.

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportAnimalMovementNotificationOverview

Input Schema:

The screenshot shows the Sanitrace EAI schema editor interface. On the left, the 'AnimalMovementNotificationOverviewExportRequest' schema is displayed with its elements: Movement, User, SecurityToken, ReturnCode, ReturnMessage, OnBehalfRole, OnBehalfEntity, and UserLanguage. On the right, the 'Movement' element is expanded, showing its detailed structure with attributes like NOTF_ID, NOTP_CDE, NOKD_CDE, NOST_CDE, DTE_FRM, DTE_TO, REF_NBR, DOC_NBR, LIC_PLT, ANTP_CDE, ANSB_CDE, PATY_CDE_TRS, FCLT_CDE, SNUN_CDE, ZIP, ANML_REF_NBR, UPD_DTE_FRM, and UPD_DTE_TO.

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/AnimalMovementNotificationOverviewExportRequestSchema>

XML Example(s)

Example EXAMN-1 – Retrieve all movements of a certain animal in a certain period

```
<AnimalMovementNotificationOverviewExportRequest  
xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/  
AnimalMovementNotificationOverviewExportRequestSchema"  
User="TESTXML" SecurityToken="N/A" ResultIndex="0">  
  <Movement>  
    <DTE_FRM>2004-01-01T00:00:00</DTE_FRM>  
    <DTE_TO>2099-01-01T00:00:00</DTE_TO>  
    <ANML_REF_NBR>NL456453543</ANML_REF_NBR>  
  </Movement>  
</AnimalMovementNotificationOverviewExportRequest>
```

Example EXAMN-2 – All arrivals of bovines to a certain slaughterhouse in a certain period

```
<AnimalMovementNotificationOverviewExportRequest  
xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/  
AnimalMovementNotificationOverviewExportRequestSchema"  
User="TESTXML" SecurityToken="N/A" ResultIndex="0">
```

```

<Movement>
  <DTE_FRM>2004-01-20T00:00:00</DTE_FRM>
  <DTE_TO>2004-01-27T23:59:59</DTE_TO>
  <ANTP_CDE>BOV</ANTP_CDE>
  <FCLT_CDE>BE92700117</FCLT_CDE>
</Movement>
</AnimalMovementNotificationOverviewExportRequest>

```

Example EXAMN-3 – Retrieve all animal movements by a certain Transporter party over the past week

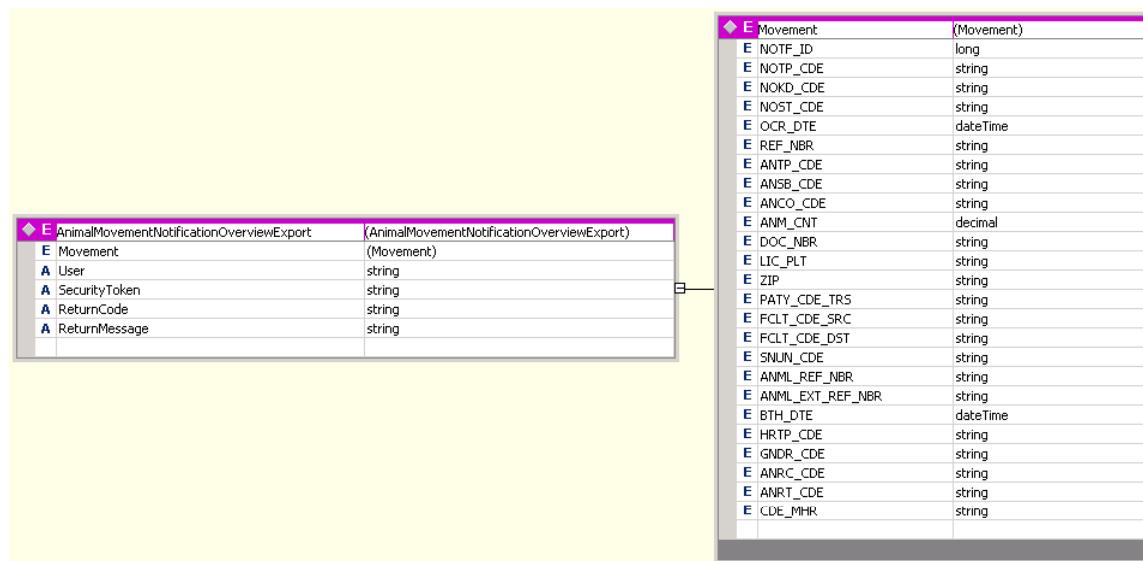
```

<AnimalMovementNotificationOverviewExportRequest
  xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
  AnimalMovementNotificationOverviewExportRequestSchema"
  User="TESTXML" SecurityToken="N/A" ResultIndex="0">
  <Movement>
    <DTE_FRM>2007-11-10T00:00:00</DTE_FRM>
    <DTE_TO>2097-11-15T23:59:59</DTE_TO>
    <ANTP_CDE>BOV</ANTP_CDE>
    <PATY_CDE_TRS>BE123456789</PATY_CDE_TRS>
  </Movement>
</AnimalMovementNotificationOverviewExportRequest>

```

Output Schema: AnimalMovementNotificationOverviewExport

This schema is slightly more general than strictly necessary. In fact a distinction could have been made between individual animals and herds. If called for herd-animals these fields remain empty.

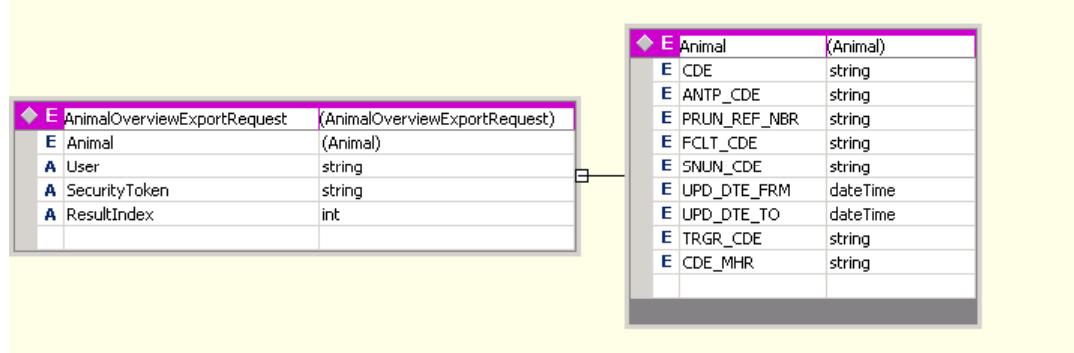


<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/AnimalMovementNotificationOverviewExportSchema>

Interface EXANO - ExportAnimalOverview

Direction: Export

Purpose: Retrieve an overview of animals and their key characteristics



Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportAnimalOverview

Input Schema: AnimalOverviewExportRequest

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/AnimalOverviewExportRequestSchema>

XML Example(s)

Example EXANO-1 – Retrieve all bovines in a certain Sanitary Unit

```
<AnimalOverviewExportRequest  
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/  
    AnimalOverviewExportRequestSchema"  
    User="TESTXML" SecurityToken="N/A" ResultIndex="0">  
    <Animal>  
        <ANTP_CDE>BOV</ANTP_CDE>  
        <SNUN_CDE>BE12345678-0101</SNUN_CDE>  
    </Animal>  
</AnimalOverviewExportRequest>
```

Example EXANO-2 – Retrieve all bovines that have been updated / changed today

```
<AnimalOverviewExportRequest  
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/  
    AnimalOverviewExportRequestSchema"  
    User="TESTXML" SecurityToken="N/A" ResultIndex="0">  
    <Animal>  
        <ANTP_CDE>BOV</ANTP_CDE>  
        <UPD_DTE_FRM>2007-11-15T00:00:00</UPD_DTE_FRM>  
        <UPD_DTE_TO>2007-11-15T23:59:59</UPD_DTE_TO>  
    </Animal>  
</AnimalOverviewExportRequest>
```

A query like this one can take some time as we have chosen for now not to put an index on it yet (in addition – because of the migration – all animals last update date will be the day of the migration) If this query is to be used structurally and regularly let us know...

Output Schema: AnimalOverviewExport

◆ E Animal (Animal)	
E ANTP_CDE	string
E CDE	string
E MACT_CDE	string
E MRK_CDG	string
E MRK_NBR	string
E FCLT_CDE	string
E SNUN_CDE	string
E CDE_MHR	string
E CDE_MHR_GTC	string
E BLST_CDE	string
E TUBR_CDE	string
E ANSB_CDE	string
E ANRC_CDE	string
E ANRT_CDE	string
E ASRV_CDE	string
E GNDR_CDE	string
E HRTP_CDE	string
E BTM_DTE	dateTime
E DTH_DTE	dateTime
E PRUN_REF_NBR	string
E EXT_GRP_NBR	string
E EXT_SGP_NBR	string
E FCLT_CDE_BTM	string
E FCLT_CDE_END	string
E CTRY_CDE_IMO	string
E CTRY_CDE_EPO	string
E DNA_ANA_FLG	boolean
E VGN_FLG	boolean
E PPT_VRS_NBR	int
E PPPR_CDE	string
E VRV_FLG	boolean
E ABFY_CDE	string
E ABSP_CDE_BAG	string
E ADSP_CDE	string
E ANCP_CDE	string
E NRS_MHR_FLG	boolean
E ANPR_CDE_BAG	string
E AMQL_CDE	string
E VRV_IDN_CRD_FLG	boolean
E ANVS_CDE	string
E ANVN_CDE	string
E VRV_NAM	string
E BTM_WGH	decimal
E LST_UPD_DTE	dateTime
E BLO_STA_CMN	string
E IMO_DTE	dateTime
E EPO_DTE	dateTime
E PUR_DTE	dateTime
E ORI_NBR	string
E CRF_NBR	string
E DNA_ANA_REF_NBR	string
E DNA_SMP_FLG	boolean
E DMAQ_CDE	string
E ANPP_PNT_DTE	dateTime
E FRT_DLV_DTE	dateTime
E LST_DLV_DTE	dateTime
E FRT_MILK_DTE	dateTime
E FRT_NUR_DTE	dateTime

◆ E AnimalOverviewExport(AnimalOverviewExport)	
E Animal	(Animal)
A User	string
A SecurityToken	string
A ReturnCode	string
A ReturnMessage	string

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/AnimalOverviewExportSchema>

Interface EXCNO - ExportChangeNotificationOverview

Direction: Export

Purpose: Retrieve an overview of changes to a Facility, a Sanitary Unit or Animal characteristics. For a description of possible change attributes – see ImportChangeNotification

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExInterfacingSvcs/SanitraceServices.asmx?op=ExportChangeNotificationOverview

Input Schema: ChangeNotificationOverviewExportRequest

Field	Type
NOTP_CDE	string
DTE_FRM	dateTime
DTE_TO	dateTime
REF_NBR	string
ANTP_CDE	string
ZIP	string
NORS_CDE	string
PATV_CDE	string
FCLT_CDE	string
SNUN_CDE	string
ANML_CDE	string
ATRB_CDE	string
DTE_FRM	dateTime
DTE_TO	dateTime

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ChangeNotificationOverviewExportRequestSchema>

XML Example(s)

Example EXCNO-1 – Retrieve all changes on animals (bovines) on a certain day

```
<ChangeNotificationOverviewExportRequest User="TESTXML" SecurityToken="N/A"
                                         ResultIndex="0"
                                         xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
                                                ChangeNotificationOverviewExportRequestSchema" >
    <ChangeNotification>
        <NOTP_CDE>CHANM</NOTP_CDE>
        <DTE_FRM>2008-09-25T00:00:00</DTE_FRM>
        <DTE_TO>2008-09-25T23:59:59</DTE_TO>
    </ChangeNotification>
</ChangeNotificationOverviewExportRequest>
```

Example EXCNO-2 – Retrieve all changes on sheep-facilities over a certain month

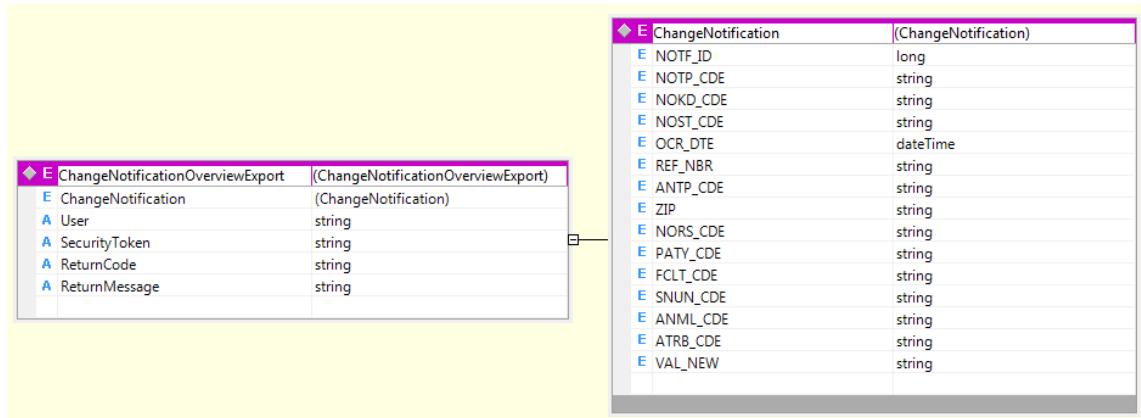
```
<ChangeNotificationOverviewExportRequest User="TESTXML" SecurityToken="N/A"
                                         ResultIndex="0"
                                         xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
                                                ChangeNotificationOverviewExportRequestSchema" >
```

```

<ChangeNotification>
  <NOTP_CDE>CHFCY</NOTP_CDE>
  <ANTP_CDE>SHP</ANTP_CDE>
  <DTE_FRM>2008-09-01T00:00:00</DTE_FRM>
  <DTE_TO>2008-09-30T23:59:59</DTE_TO>
</ChangeNotification>
</ChangeNotificationOverviewExportRequest>

```

Output Schema: ChangeNotificationOverviewExport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ChangeNotificationOverviewExportSchema>

Interface EXFAO - ExportFacilityOverview

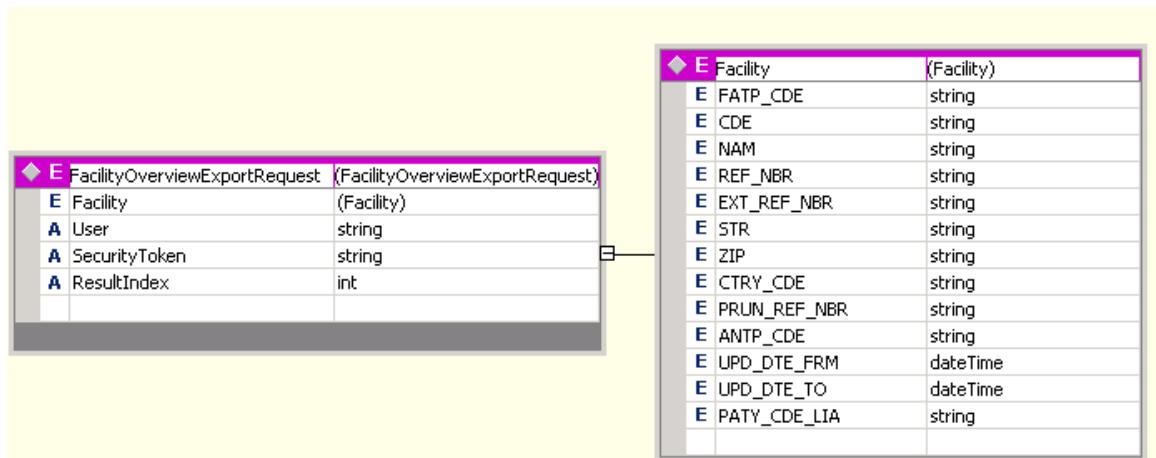
Direction: Export

Purpose: Retrieve a general overview of facilities (name/address info, reference numbers, liable party details,...)

Layout-Documentation:

http://gas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportFacilityOverview

Input Schema: FacilityOverviewExportRequest



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/FacilityOverviewExportRequestSchema>

XML Example(s)

Example EXFAO – 1 – Retrieve all sheep owners in Brugge

```
<FacilityOverviewExportRequest  
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/  
FacilityOverviewExportRequestSchema"  
    User="TESTXML" SecurityToken="N/A" ResultIndex="0">  
    <Facility>  
        <FATP_CDE>FARM</FATP_CDE>  
        <ANTP_CDE>SHP</ANTP_CDE>  
        <ZIP>8000</ZIP>  
    </Facility>  
</FacilityOverviewExportRequest>
```

Example EXANO-2 – Retrieve all facilities that were updated this month

```
<FacilityOverviewExportRequest  
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/  
FacilityOverviewExportRequestSchema"  
    User="TESTXML" SecurityToken="N/A" ResultIndex="0">  
    <Facility>  
        <UPD_DTE_FRM>2007-11-15T00:00:00</UPD_DTE_FRM>  
        <UPD_DTE_TO>2007-11-15T23:59:59</UPD_DTE_TO>  
</Facility>  
</FacilityOverviewExportRequest>
```

```

</Facility>
</FacilityOverviewExportRequest>

```

Output Schema: FacilityOverviewExport

◆ E FacilityOverviewExport (FacilityOverviewExport)		(Facility)
E	Facility	(Facility)
A	User	string
A	SecurityToken	string
A	ReturnCode	string
A	ReturnMessage	string
		■
◆ E	Facility	(Facility)
E	FATP_CDE	string
E	CDE	string
E	NAM	string
E	REF_NBR	string
E	EXT_REF_NBR	string
E	AL1	string
E	AL2	string
E	STR	string
E	NBR	string
E	BOX	string
E	ZIP	string
E	CTY	string
E	MCP	string
E	CTRY_CDE	string
E	TPH	string
E	LIA_CDE	string
E	LIA_NAM	string
E	LIA_REF_NBR	string
E	LIA_EXT_REF_NBR	string
E	LIA_AL1	string
E	LIA_AL2	string
E	LIA_STR	string
E	LIA_NBR	string
E	UPD_DTE	dateTime
E	GEO_LAT	decimal
E	GEO_LON	decimal
E	GEO_X	decimal
E	GEO_Y	decimal
E	GXYS_CDE	string
E	GEO_STR_LTH	decimal
E	GEO_PLG_DEF	string
E	GIS_REF	string

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/FacilityOverviewExportSchema>

Interface EXMNO - ExportMovementNotificationOverview

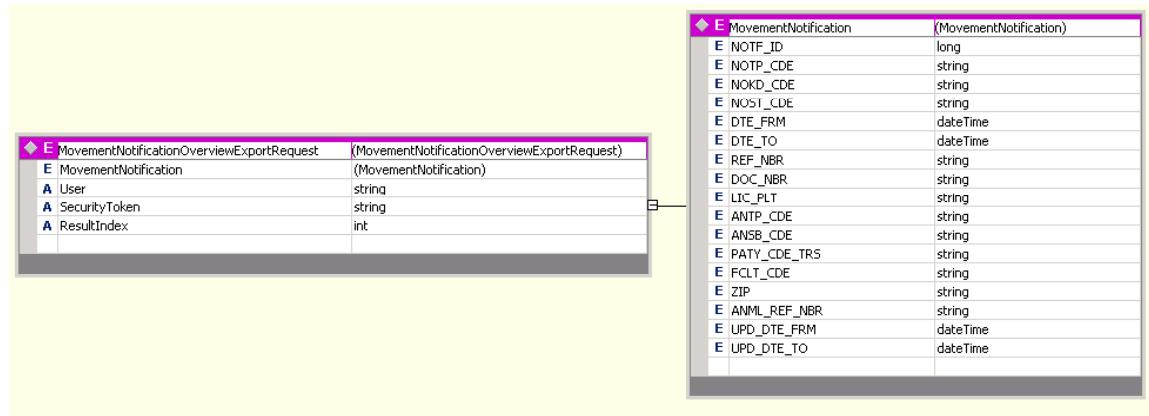
Direction: Export

Purpose: Retrieve an overview of movements on movement level and not on

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportMovementNotificationOverview

Input Schema: MovementNotificationOverviewExportRequest



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/MovementNotificationOverviewExportRequestSchema>

XML Example(s)

Example EXAMN-1 – Retrieve all movements of a certain animal in a certain period

```
<MovementNotificationOverviewExportRequest
  xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
  MovementNotificationOverviewExportRequestSchema"
  User="TESTXML" SecurityToken="N/A" ResultIndex="0">
  <MovementNotification>
    <DTE_FRM>2004-01-01T00:00:00</DTE_FRM>
    <DTE_TO>2099-01-01T00:00:00</DTE_TO>
    <ANML_REF_NBR>NL456453543</ANML_REF_NBR>
  </MovementNotification>
</MovementNotificationOverviewExportRequest>
```

Example EXAMN-2 – Retrieve all arrivals of pigs to a certain market on a certain day

```
<MovementNotificationOverviewExportRequest
  xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
  MovementNotificationOverviewExportRequestSchema"
  User="TESTXML" SecurityToken="N/A" ResultIndex="0">
  <MovementNotification>
    <NOTP_CDE>MMARV</NOTP_CDE>
    <DTE_FRM>2007-11-15T00:00:00</DTE_FRM>
    <DTE_TO>2097-11-15T23:59:59</DTE_TO>
  </MovementNotification>
</MovementNotificationOverviewExportRequest>
```

```

<ANTP_CDE>PIG</ANTP_CDE>
<FCLT_CDE>BE56784321</FCLT_CDE>
</MovementNotification>
</MovementNotificationOverviewExportRequest>

```

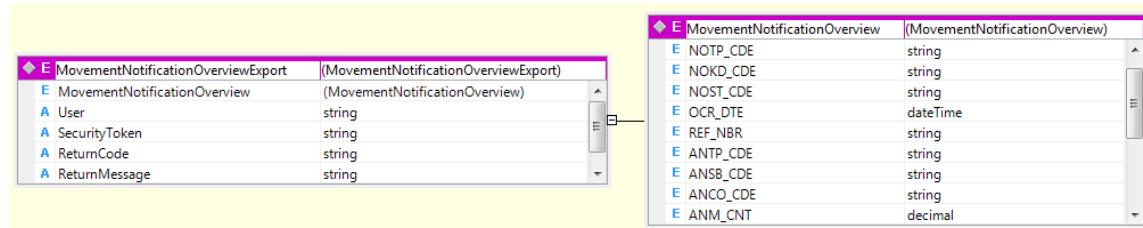
Example EXAMN-3 – Retrieve all movements by a certain Transporter party over the past week

```

<MovementNotificationOverviewExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        MovementNotificationOverviewExportRequestSchema"
    User="TESTXML" SecurityToken="N/A" ResultIndex="0">
    <MovementNotification>
        <DTE_FRM>2004-07-20T00:00:00</DTE_FRM>
        <DTE_TO>2004-07-21T00:00:00</DTE_TO>
        <PATY_CDE_TRS>BE22002870</PATY_CDE_TRS>
    </MovementNotification>
</MovementNotificationOverviewExportRequest>

```

Output Schema: MovementNotificationOverviewExport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/MovementNotificationOverviewExportSchema>

Interface EXMVN - ExportMovementNotification

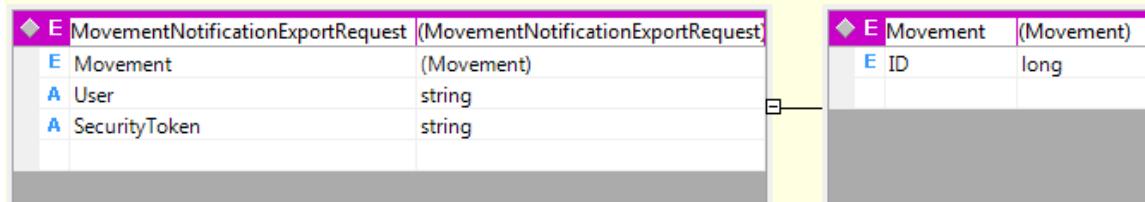
Direction: Export

Purpose: Retrieve a detailed insight in a movement (involved parties, involved facilities, involved animals,...)

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportMovementNotification

Input Schema: MovementNotificationExportRequest



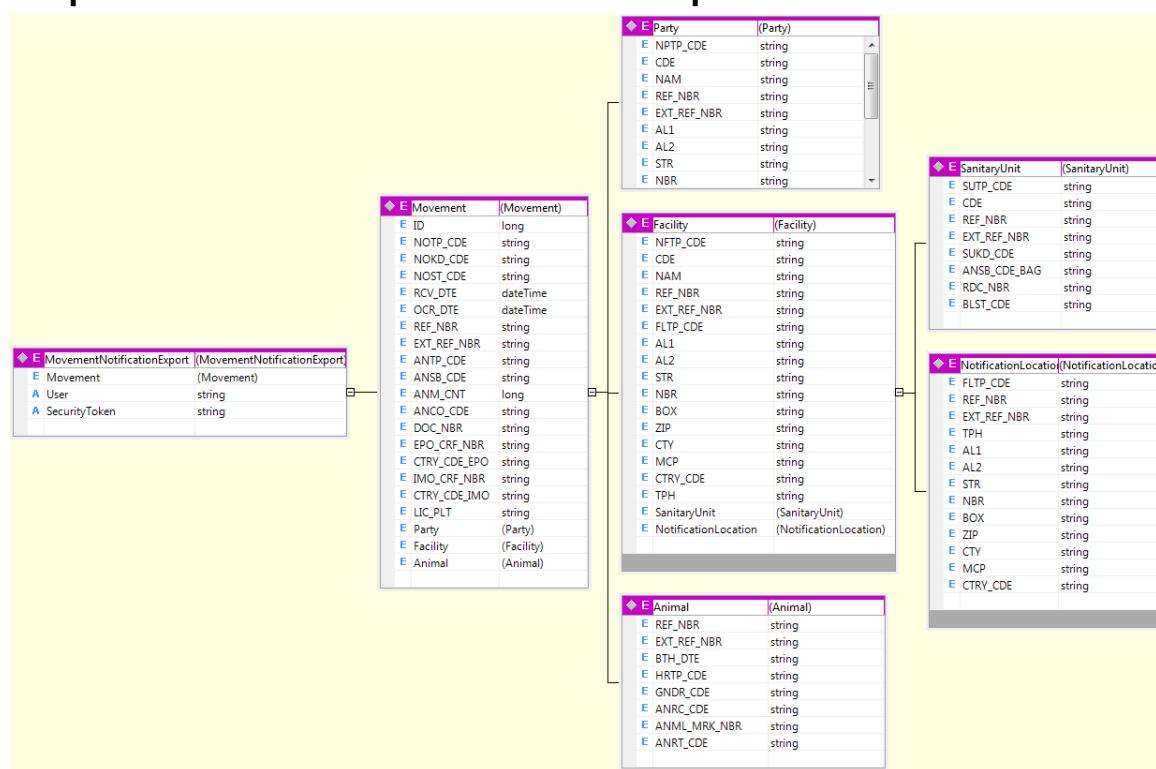
<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/MovementNotificationExportRequestSchema>

XML Example(s)

Example EXFAO – 1 – Retrieve the full detail for movements 300034 and 300035

```
<MovementNotificationExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
    MovementNotificationExportRequestSchema" User="TESTXML" SecurityToken="N/A">
    <Movement>
        <ID>300034</ID>
    </Movement>
    <Movement>
        <ID>300035</ID>
    </Movement>
</MovementNotificationExportRequest>
```

Output Schema: MovementNotificationExport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/MovementNotificationExportSchema>

Interface EXPAO - ExportPartyOverview

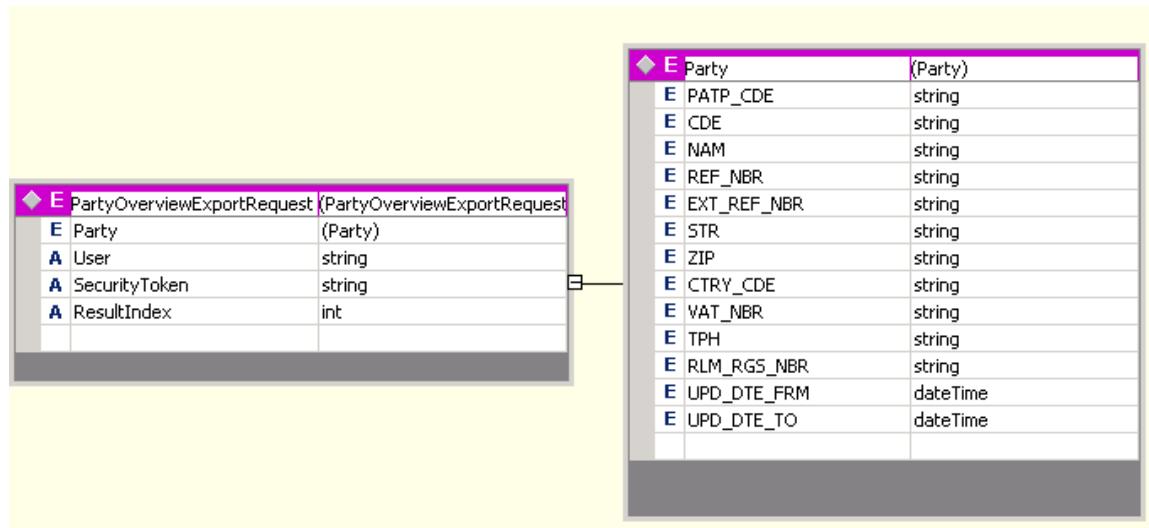
Direction: Export

Purpose: Retrieve a general overview of Parties (Name/Address, Reference Numbers, Contact Data,...)

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportPartyOverview

Input Schema: PartyOverviewExportRequest



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/PartyOverviewExportRequestSchema>

XML Example(s)

Example EXPA – 1 – Retrieve transporter “Wuyts” or “Wuits” or whatever WU...

```
<PartyOverviewExportRequest  
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/  
    PartyOverviewExportRequestSchema"  
    User="TESTXML" SecurityToken="N/A" ResultIndex="0">  
    <Party>  
        <PATP_CDE>TRS</PATP_CDE>  
        <NAM>WU%</NAM>  
    </Party>  
</PartyOverviewExportRequest>
```

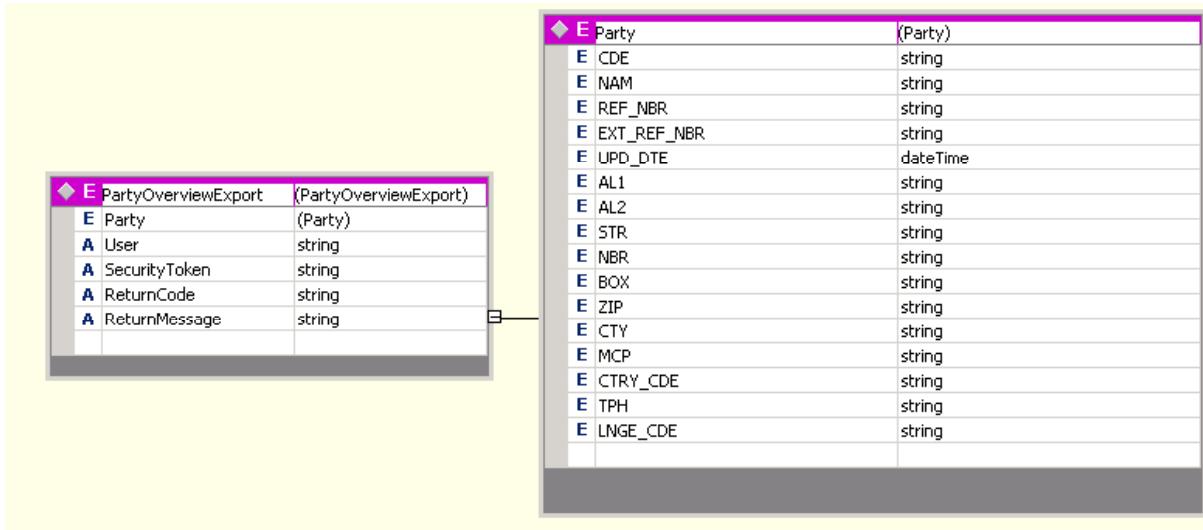
Example EXPA – 2 – Retrieve all Slaughterhouses

```
<?xml version="1.0" encoding="utf-8"?>  
<PartyOverviewExportRequest xmlns="http://Sanitrace.EAI/SanitraceRepository/  
    SanitraceServices/PartyOverviewExportRequestSchema"
```

```
User="TESTXML" SecurityToken="N/A" ResultIndex="0">
<Party>
  <PATP_CDE>SLGHS</PATP_CDE>
</Party>
</PartyOverviewExportRequest>
```

Output Schema: PartyOverviewExport

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/PartyOverviewExportSchema>



Interface EXLPO - ExportLiablePartyOverview

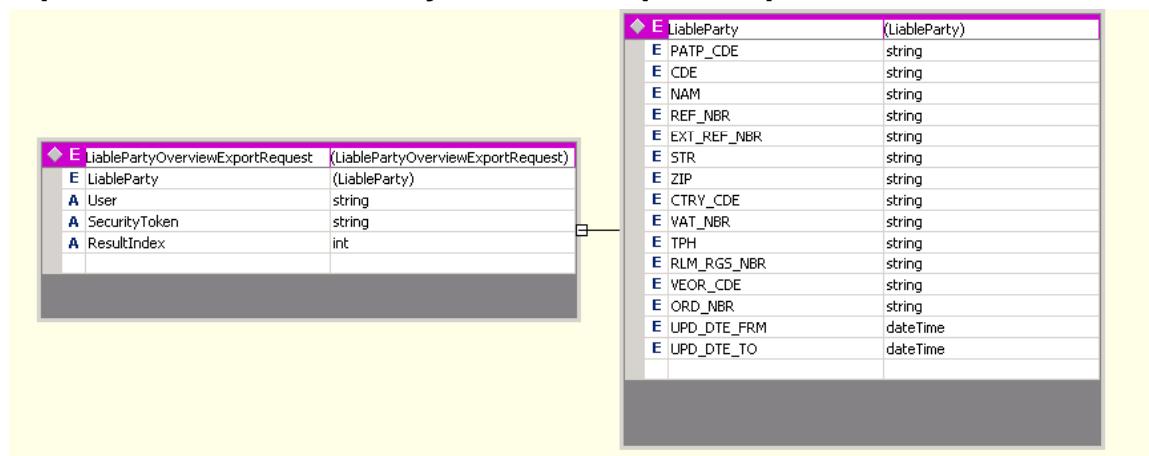
Direction: Export

Purpose: Retrieves a detailed overview of Liable Party information including sensitive information such as names, GSMS, phone numbers,....

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportLiablePartyOverview

Input Schema: LiablePartyOverviewExportRequest



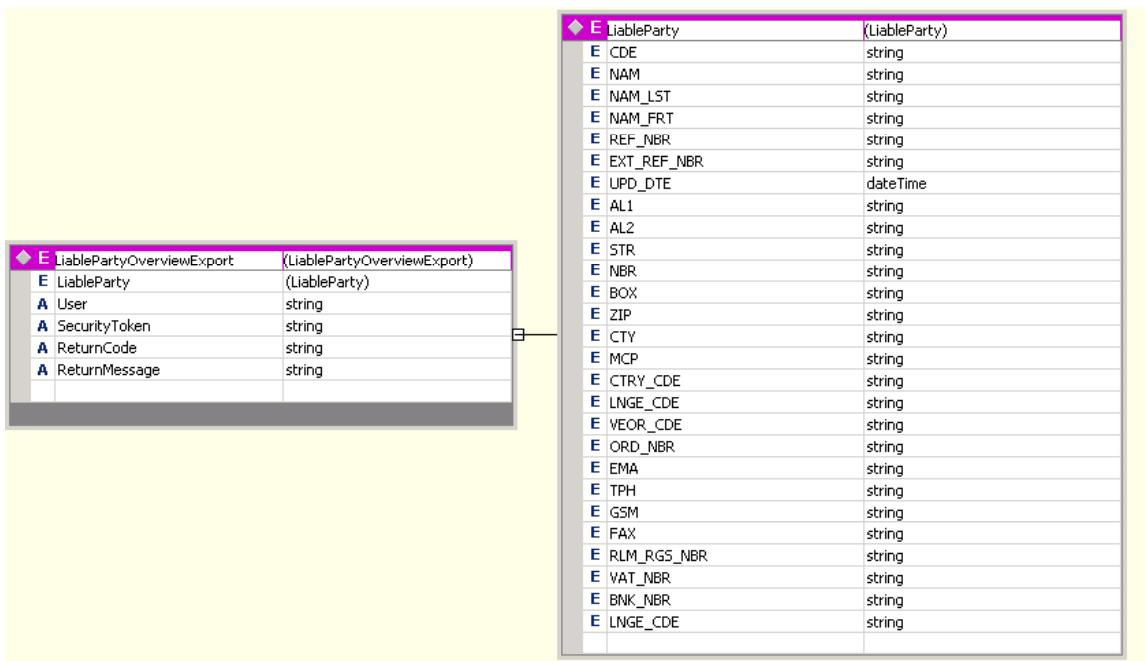
<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/LiablePartyOverviewExportRequestSchema>

XML Example(s)

Example EXPA – 1 – Retrieve detail info on the Dutch speaking veterinary with ordernumber 1257

```
<LiablePartyOverviewExportRequest  
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/  
    LiablePartyOverviewExportRequestSchema"  
    User="TESTXML" SecurityToken="N/A" ResultIndex="0">  
    <LiableParty>  
        <VEOR_CDE>NL</VEOR_CDE>  
        <ORD_NBR>1257</ORD_NBR>  
    </LiableParty>  
</LiablePartyOverviewExportRequest>
```

Output Schema: LiablePartyOverviewExport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/LiablePartyOverviewExportSchema>

Interface EXPUO - ExportProductionUnitOverview

Direction: Export

Purpose: Retrieve a general overview of which exploitation units are used at which facilities / sanitary units

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportProductionUnitOverview

Input Schema: ProductionUnitOverviewExportRequest

◆ E ProductionUnitOverviewExportRequest (ProductionUnitOverviewExportRequest)	
E	ProductionUnit
A	User
A	SecurityToken
A	ResultIndex

◆ E ProductionUnit (ProductionUnit)	
E	REF_NBR
E	PCR_REF_NBR
E	PUTP_CDE
E	FCLT_CDE
E	FCLT_NAM
E	FCLT_REF_NBR
E	FCLT_EXT_REF_NBR
E	FCLT_ZIP
E	ANTP_CDE
E	UPD_DTE_FRM
E	UPD_DTE_TO
E	PATY_CDE_RSP

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ProductionUnitOverviewExportRequestSchema>

XML Example(s)

Example 1 – Retrieve all production units of a certain facility

```
<ProductionUnitOverviewExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
    ProductionUnitOverviewExportRequestSchema"
    User="TESTXML" SecurityToken="N/A" ResultIndex="0">
    <ProductionUnit>
        <FCLT_CDE>BE70057407</FCLT_CDE>
    </ProductionUnit>
</ProductionUnitOverviewExportRequest>
```

Example 2 – Retrieve the info about a certain production unit

```
<ProductionUnitOverviewExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
    ProductionUnitOverviewExportRequestSchema"
    User="TESTXML" SecurityToken="N/A" ResultIndex="0">
    <ProductionUnit>
        <REF_NBR>7102607960</REF_NBR>
    </ProductionUnit>
</ProductionUnitOverviewExportRequest>
```

Example 3 – Retrieve the info about all production units changed over a certain period

```
<ProductionUnitOverviewExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
```

```

ProductionUnitOverviewExportRequestSchema"
    User="TESTXML" SecurityToken="N/A" ResultIndex="0">
<ProductionUnit>
    <UPD_DTE_FRM>2007-11-11T00:00:00</ UPD_DTE_FRM>
    <UPD_DTE_TO>2007-11-30T23:59:59</ UPD_DTE_TO>
</ProductionUnit>
</ProductionUnitOverviewExportRequest>

```

Output Schema: ProductionUnitOverviewExport

◆ E ProductionUnit (ProductionUnit)	
E REF_NBR	string
E PRC_REF_NBR	string
E PRC_NAM	string
E PRC_STR	string
E PRC_NBR	string
E PRC_ZIP	string
E PRC_CTY	string
E SUTP_CDE	string
E SNUN_CDE	string
E SNUN_NAM	string
E SNUN_REF_NBR	string
E FCLT_CDE	string
E FCLT_NAM	string
E FCLT_REF_NBR	string
E FLTP_CDE	string
E FALO_REF_NBR	string
E AL1	string
E AL2	string
E STR	string
E NBR	string
E BOX	string
E ZIP	string
E CTY	string
E MCP	string
E CTRY_CDE	string
E TPH	string
E LIA_CDE	string
E LIA_NAM	string
E LIA_REF_NBR	string
E LIA_EXT_REF_NBR	string
E LIA_AL1	string
E LIA_AL2	string
E LIA_STR	string
E LIA_NBR	string
E LIA_BOX	string
E LIA_ZIP	string
E LIA_CTY	string
E LIA_MCP	string
E LIA_CTRY_CDE	string
E LIA_TPH	string

◆ E ProductionUnitOverviewExport (ProductionUnitOverviewExport)	
E ProductionUnit (ProductionUnit)	
A User	string
A SecurityToken	string
A ReturnCode	string
A ReturnMessage	string

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ProductionUnitOverviewExportSchema>

Interface EXPU - ExportProductionUnit

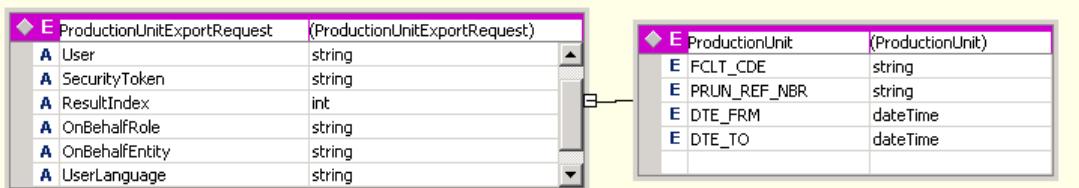
Direction: Export

Purpose: Retrieve all Animal allocations to any old or current production unit of a certain facility including the from and the to of these allocations

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportProductionUnit

Input Schema: ProductionUnitExportRequest



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ProductionUnitOverviewExportRequestSchema>

XML Example(s)

Example 1 – Retrieve all production unit details of a certain facility over a certain period. (Includes all animals that were part of Any Production Unit in this Facility In any period overlapping with the specified period)

```
<ProductionUnitExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
    ProductionUnitExportRequestSchema"
    User=" TESTXML" SecurityToken="N/A" ResultIndex="0">
<ProductionUnit>
    <FCLT_CDE>BE70057407</FCLT_CDE>
    <DTE_FRM>2006-12-01T00:00:00</ DTE_FRM>
    <DTE_TO>2007-11-30T23:59:59</ DTE_TO>
</ProductionUnit>
</ProductionUnitExportRequest>
```

Example 2 – Retrieve all production unit details of a certain production unit in a certain facility over a certain period (Includes all animals that were part of this Production Unit in any period overlapping with the specified period)

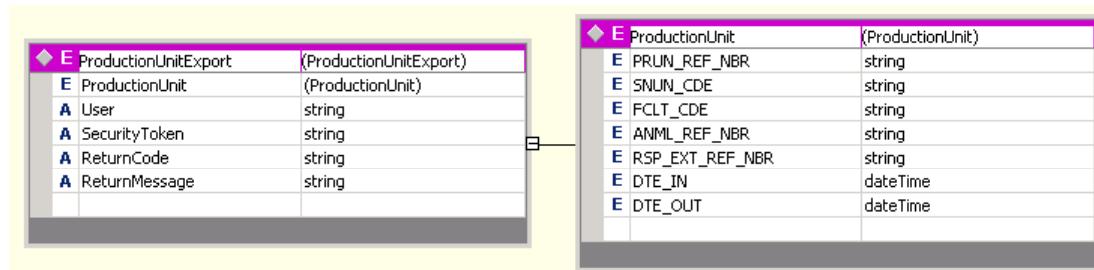
```
<ProductionUnitExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
    ProductionUnitExportRequestSchema"
    User=" TESTXML" SecurityToken="N/A" ResultIndex="0">
<ProductionUnit>
    <FCLT_CDE>BE70057407</FCLT_CDE>
    <PRUN_REF_NBR>123456789</PRUN_REF_NBR>
    <DTE_FRM>2006-12-01T00:00:00</ DTE_FRM>
    <DTE_TO>2007-11-30T23:59:59</ DTE_TO>
</ProductionUnit>
</ProductionUnitExportRequest>
```

Example 3 – Retrieve all production unit details of a certain production unit over a certain period (Includes all animals that were part of this Production Unit in any period overlapping with the specified period) – As the production unit is part of a facility this is more or less equivalent too 2

```
<ProductionUnitExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
    ProductionUnitExportRequestSchema"
    User=" TESTXML" SecurityToken="N/A" ResultIndex="0">
<ProductionUnit>
    <PRUN_REF_NBR>123456789</PRUN_REF_NBR>
    <DTE_FRM>2006-12-01T00:00:00</ DTE_FRM>
    <DTE_TO>2007-11-30T23:59:59</ DTE_TO>
</ProductionUnit>
</ProductionUnitExportRequest>
```

Output Schema: ProductionUnitExport

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ProductionUnitExportSchema>



Interface EXSU - ExportSanitaryUnit

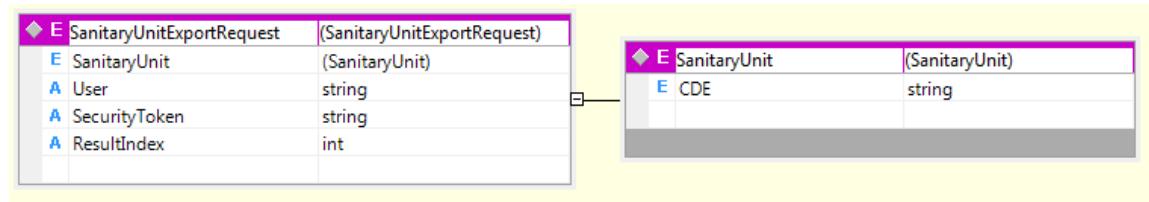
Direction: Export

Purpose: Retrieve detailed info about a sanitary unit (Location, Address, Sanitary Characteristics, Involved Parties, Production Unit Info, Marking Inventory, Capacity, Population Inventory, Risk Information, History Information...)

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportSanitaryUnit

Input Schema: SanitaryUnitExportRequest



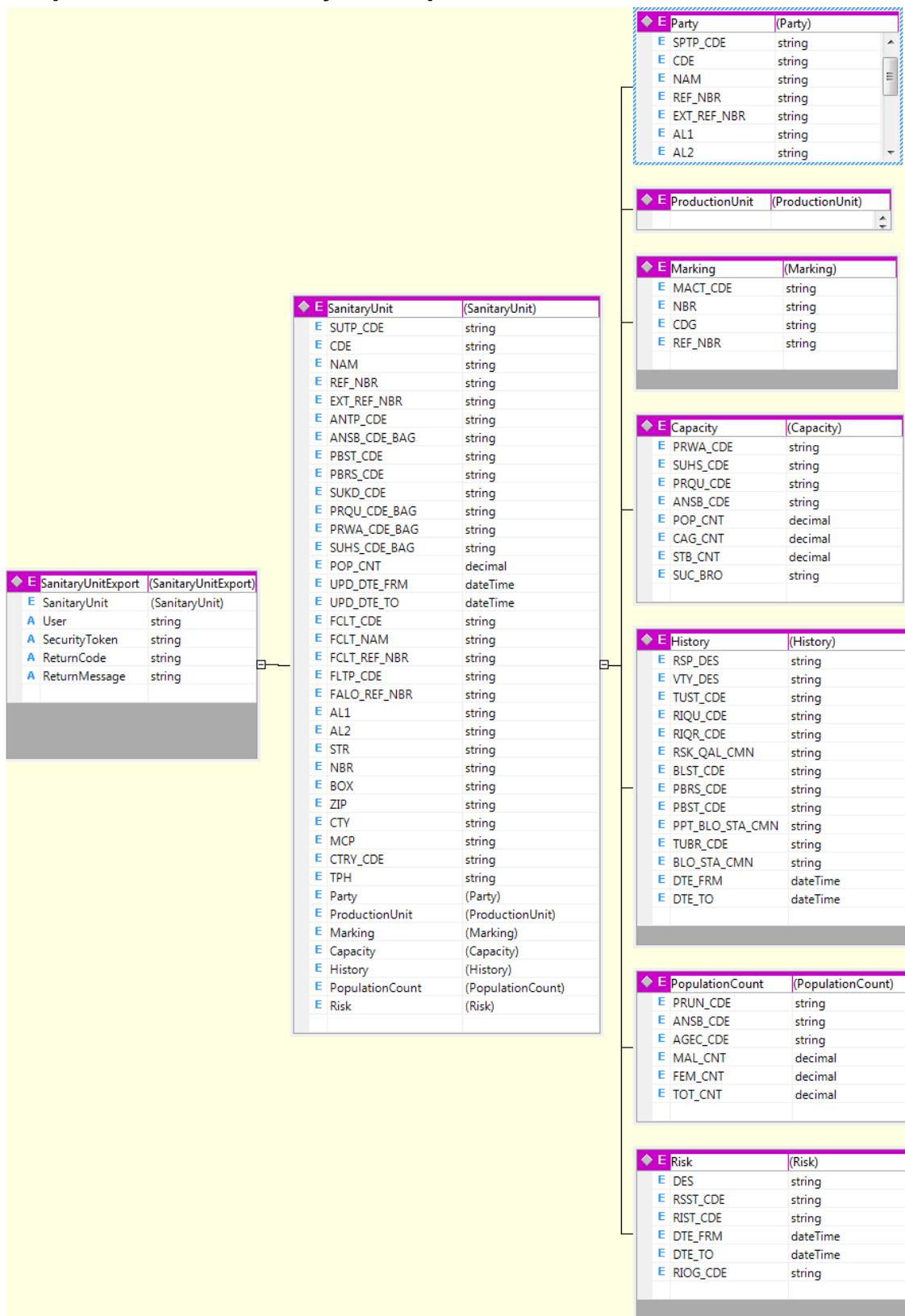
<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/SanitaryUnitExportRequestSchema>

XML Example(s)

Example EXSU-1 – Retrieve detailed information of a sanitary unit

```
<SanitaryUnitExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
    SanitaryUnitExportRequestSchema"
    User="TESTXML" SecurityToken="N/A">
    <SanitaryUnit>
        <CDE>BE12345678-0101</CDE>
    </SanitaryUnit>
</SanitaryUnitExportRequest>
```

Output Schema: SanitaryUnitExport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/SanitaryUnitExportSchema>

Interface EXSUO - ExportSanitaryUnitOverview

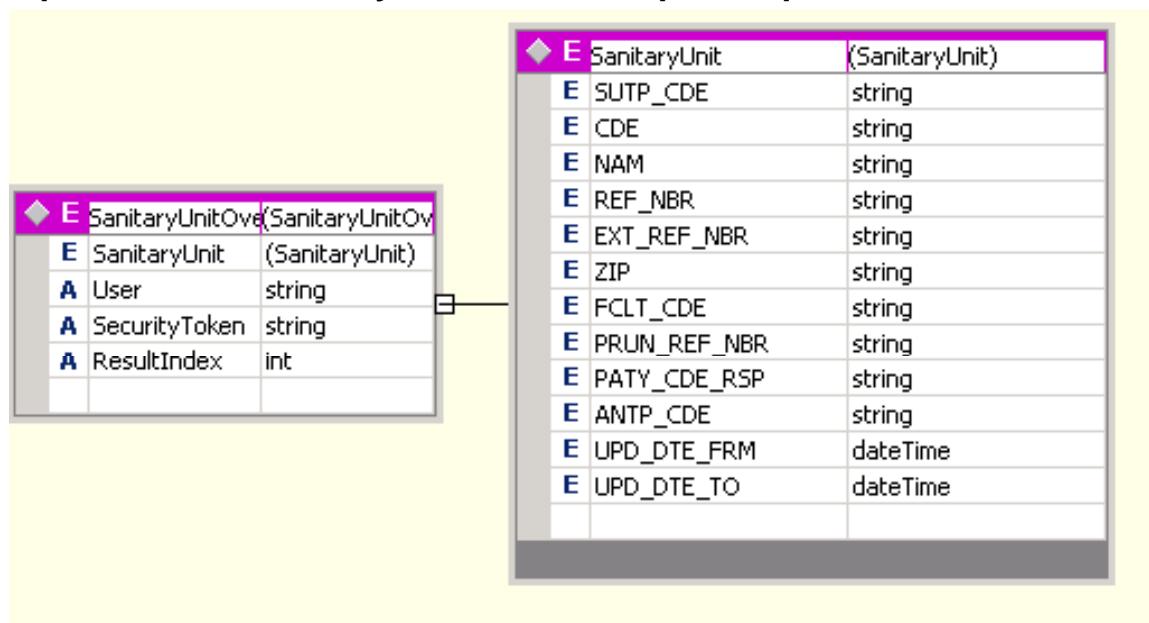
Direction: Export

Purpose: Retrieve a general overview of sanitary units and their key characteristics

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportSanitaryUnitOverview

Input Schema: SanitaryUnitOverviewExportRequest



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/SanitaryUnitOverviewExportRequestSchema>

XML Example(s)

Example EXSU-1 – Retrieve all sanitary units of a certain facility

```
<SanitaryUnitOverviewExportRequest  
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/  
        SanitaryUnitOverviewExportRequestSchema" User="TESTXML" SecurityToken="N/A" ResultIndex="0">  
    <SanitaryUnit>  
        <FCLT_CDE>BE70057407</FCLT_CDE>  
    </SanitaryUnit>  
</SanitaryUnitOverviewExportRequest>
```

Output Schema: SanitaryUnitOverviewExport

 E	SanitaryUnit	(SanitaryUnit)
E	SUTP_CDE	string
E	CDE	string
E	NAM	string
E	REF_NBR	string
E	EXT_REF_NBR	string
E	ANTP_CDE	string
E	ANSB_CDE_BAG	string
E	PBST_CDE	string
E	PBRS_CDE	string
E	SUKD_CDE	string
E	PRQU_CDE_BAG	string
E	PRWA_CDE_BAG	string
E	SUHS_CDE_BAG	string
E	POP_CNT	decimal
E	UPD_DTE	dateTime
E	FCLT_CDE	string
E	FCLT_NAM	string
E	FCLT_REF_NBR	string
E	FCLT_EXT_REF_NBR	string
E	FLTP_CDE	string
E	FALO_REF_NBR	string
E	AL1	string
E	AL2	string
E	STR	string
E	NBR	string
E	BOX	string
E	ZIP	string
E	CTY	string
E	MCP	string
E	CTRY_CDE	string
E	TPH	string
E	RSP_CDE	string
E	RSP_NAM	string
E	RSP_REF_NBR	string
E	RSP_EXT_REF_NBR	string
E	RSP_AL1	string
E	RSP_AL2	string
E	RSP_STR	string
E	RSP_NBR	string
E	RSP_BOX	string
E	RSP_ZIP	string
E	RSP_CTY	string
E	RSP_MCP	string
E	RSP_CTRY_CDE	string
E	RSP_TPH	string
E	TUST_CDE	string
E	GEO_LAT	decimal
E	GEO_LON	decimal
E	GEO_X	decimal
E	GEO_Y	decimal
E	GXYS_CDE	string
E	GEO_STR_LTH	decimal
E	GEO_PLG_DEF	string
E	GIS_REF	string

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/SanitaryUnitOverviewExportSchema>

Interface EXSLO - ExportSlaughteringOverview

Direction: Export

Purpose: Retrieve summary statistics of slaughtered animals (*) In process

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportSlaughteringOverview

Input Schema: SlaughteringOverviewExportRequest

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/SlaughteringOverviewExportRequestSchema>

XML Example(s)

Output Schema: SlaughteringOverviewExport

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/SlaughteringOverviewExportSchema>

Interface EXAGR - ExportAgreementOverview

Direction: Export

Purpose: Export Agreement Information

Layout-Documentation:

http://qas.santrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportAgreementOverview

Input Schema: ExportAgreementOverviewExportRequest

◆ E AgreementOverviewExportR (AgreementOverviewExportR)	E Agreement (Agreement)	(Agreement)
A User	string	
A SecurityToken	string	
A ResultIndex	int	

◆ E Agreement	(Agreement)
E AGRE_ID	long
E AGRE_CDE	string
E REF_NBR	string
E EXT_REF_NBR	string
E AGTP_CDE	string
E AGSA_CDE	string
E APTP_CDE	string
E PATY_CDE	string
E FCLT_CDE	string
E SNUN_CDE	string
E DTE	dateTime
E BEG_DTE_FRM	dateTime
E BEG_DTE_TO	dateTime
E END_DTE_FRM	dateTime
E END_DTE_TO	dateTime

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ExportAgreementOverviewExportRequestSchema>

XML Example(s)

Example EXAGR-1 – Retrieve all agreements of a certain party

```
<AgreementOverviewExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        AgreementOverviewExportRequestSchema"
    User="TESTXML" SecurityToken="N/A" ResultIndex="0">
    <Agreement>
        <SNUN_CDE>BE10014458-0101</SNUN_CDE>
    </Agreement>
</AgreementOverviewExportRequest>
```

Example EXAGR2 – Has a certain sanitary unit a Read-Agreement contract with VRV on Aug. 16?

```
<AgreementOverviewExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        AgreementOverviewExportRequestSchema"
    User="TESTXML" SecurityToken="N/A" ResultIndex="0">
<Agreement>
    <AGTP_CDE>RAFI</AGTP_CDE>
    <SNUN_CDE>BE10014385-0101</SNUN_CDE>
    <PATY_CDE>BE42001722</PATY_CDE>
    <APTP_CDE>AVPA</APTP_CDE>
    <DTE>2008-08-18T00:00:00</DTE>
</Agreement>
```

```
</AgreementOverviewExportRequest>
```

Example EXAGR3 – Who are the responsible Veterinaries for a number of Sanitary Units?

```
<AgreementOverviewExportRequest  
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/  
        AgreementOverviewExportRequestSchema"  
    User="TESTXML" SecurityToken="N/A" ResultIndex="0">  
<Agreement>  
    <SNUN_CDE>BE50060010-0101</SNUN_CDE>  
    <AGTP_CDE>VETA</AGTP_CDE>  
</Agreement>  
<Agreement>  
    <SNUN_CDE>BE10014458-0101</SNUN_CDE>  
    <AGTP_CDE>VETA</AGTP_CDE>  
</Agreement>  
</AgreementOverviewExportRequest>
```

Output Schema: ExportAgreementOverview

◆ E AgreementOverviewExport (AgreementOverviewExport)		(Agreement)
E	Agreement	(Agreement)
A	User	string
A	SecurityToken	string
A	ReturnCode	string
A	ReturnMessage	string
		□—
◆ E Agreement		(Agreement)
E	AGRE_ID	long
E	AGRE_CDE	string
E	AGTP_CDE	string
E	AGSA_CDE	string
E	BEG_DTE	dateTime
E	END_DTE	dateTime
E	REF_NBR_BEG	string
E	REF_NBR_END	string
E	EXT_REF_NBR_BEG	string
E	EXT_REF_NBR_END	string
E	APTP_CDE1	string
E	PATY_CDE1	string
E	PATY_NAM1	string
E	APTP_CDE2	string
E	PATY_CDE2	string
E	PATY_NAM2	string
E	UPD_DTE	dateTime

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ExportAgreementOverviewExportSchema>

Interface EXMS - ExportMarkingSeriesOverview

Direction: Export

Purpose: Export Marking Series Overview

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportMarkingSeriesOverview

Input Schema: MarkingSeriesOverviewExportRequest

◆ E MarkingSeriesOverviewExportRequest (MarkingSeriesOverviewExportRequest)		◆ E MarkingSeries (MarkingSeries)
E	MarkingSeries (MarkingSeries)	E SNUN_CDE string
A	User string	E PATV_CDE_SUP string
A	SecurityToken string	E OISN_CDE string
A	ResultIndex int	E ALC_DTE_FRM dateTime
A	OnBehalfRole string	E ALC_DTE_TO dateTime
A	OnBehalfEntity string	E UPD_DTE_FRM dateTime
A	UserLanguage string	E UPD_DTE_TO dateTime

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ExportMarkingSeriesOverviewExportRequestSchema>

XML Example(s)

Example EXMS-1 – Retrieve all marking series of allocated over a certain period

```
<MarkingSeriesOverviewExportRequest
  xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
  MarkingSeriesOverviewExportRequestSchema" User="TESTXML" SecurityToken="N/A">
<MarkingSeries>
  <ALC_DTE_FRM>2008-10-20T00:00:00</ALC_DTE_FRM>
  <ALC_DTE_TO>2008-11-03T00:00:00</ALC_DTE_TO>
</MarkingSeries>
</MarkingSeriesOverviewExportRequest>
```

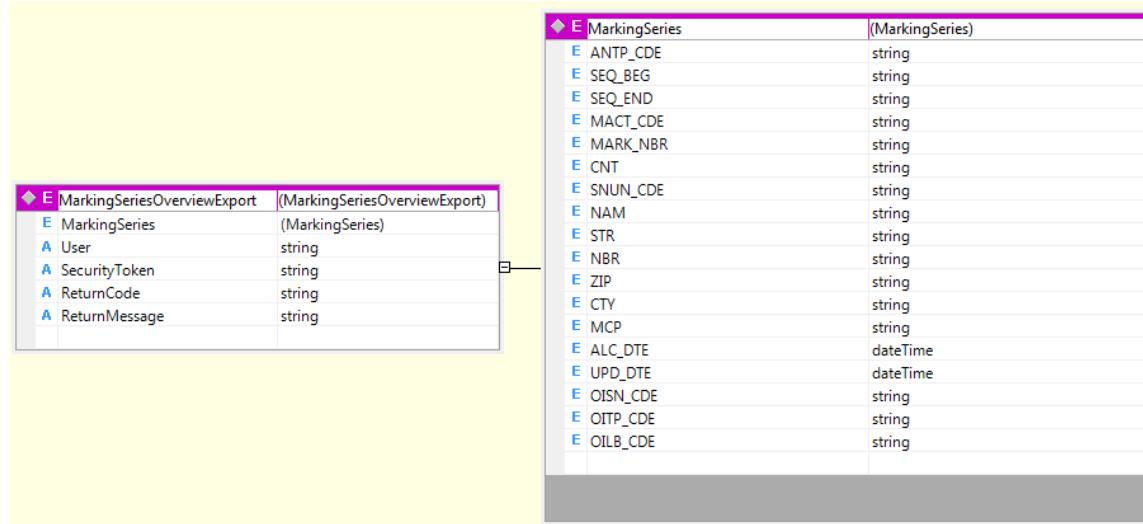
Example EXMS-2 – Retrieve all Bovines Prime Earmark (BOVM) marking series allocated to a certain sanitary unit

```
<MarkingSeriesOverviewExportRequest
  xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
  MarkingSeriesOverviewExportRequestSchema" User="TESTXML" SecurityToken="N/A">
<MarkingSeries>
  <SNUN_CDE>BE30052674-0101</SNUN_CDE>
  <OISN_CDE>BOVM</OISN_CDE>
</MarkingSeries>
</MarkingSeriesOverviewExportRequest>
```

Example EXMS-3 – Retrieve all Bovines Slaughtering Earmark (BOVM) marking series allocated to a certain sanitary unit

```
<MarkingSeriesOverviewExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        MarkingSeriesOverviewExportRequestSchema" User="TESTXML" SecurityToken="N/A">
<MarkingSeries>
    <SNUN_CDE>BE30052674-0101</SNUN_CDE>
    <OISN_CDE>BOVSL</OISN_CDE>
</MarkingSeries>
</MarkingSeriesOverviewExportRequest>
```

Output Schema: MarkingSeriesOverviewExport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ExportMarkingSeriesOverviewExportSchema>

Interface EXRNO - ExportRetaggingNotificationOverview

Direction: Export

Purpose: Export Retagging Notification Overview

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportRetaggingNotificationOverview

Input Schema: RetaggingNotificationOverviewExportRequest

E RetaggingNotificationOverviewExportRequest (RetaggingNotificationOverviewExportRequest)		◆ E RetaggingNotification (RetaggingNotification)	
E RetaggingNotification	(RetaggingNotification)	E NOTP_ID	long
A User	string	E NOTP_CDE	string
A SecurityToken	string	E NOKD_CDE	string
A ResultIndex	int	E NOST_CDE	string
A OnBehalfRole	string	E OCR_DTE_FRM	dateTime
A OnBehalfEntity	string	E OCR_DTE_TO	dateTime
A UserLanguage	string	E REF_NBR	string
		E PATY_CDE	string
		E FCLT_CDE	string
		E SNUN_CDE	string
		E ANML_CDE	string
		E DTE_FRM	dateTime
		E DTE_TO	dateTime

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ExportRetaggingNotificationOverviewExportRequestSchema>

XML Example(s)

Example EXRNO-1 – Retrieve all retaggings of the last 3 days

```
<RetaggingNotificationOverviewExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        RetaggingNotificationOverviewExportRequestSchema"
    User="TESTXML" SecurityToken="N/A">
    <RetaggingNotification>
        <NOTP_CDE>RETAG</NOTP_CDE>
        <OCR_DTE_FRM>2008-10-26T00:00:00</OCR_DTE_FRM>
        <OCR_DTE_TO>2008-10-29T00:00:00</OCR_DTE_TO>
    </RetaggingNotification>
</RetaggingNotificationOverviewExportRequest>
```

Example EXRNO-2 – Retrieve all retags a certain sanitary unit did in the last year

```
<RetaggingNotificationOverviewExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        RetaggingNotificationOverviewExportRequestSchema"
    User="TESTXML" SecurityToken="N/A">
    <RetaggingNotification>
        <NOTP_CDE>RETAG</NOTP_CDE>
        <OCR_DTE_FRM>2008-01-01T00:00:00</OCR_DTE_FRM>
        <OCR_DTE_TO>2008-10-29T00:00:00</OCR_DTE_TO>
        <SNUN_CDE>BE40078272-0101</SNUN_CDE>
    </RetaggingNotification>
</RetaggingNotificationOverviewExportRequest>
```

Output Schema: RetaggingNotificationOverviewExport

◆ E RetaggingNotificationOverviewExport (RetaggingNotificationOverviewExport)		(RetaggingNotification)
E	RetaggingNotification	(RetaggingNotification)
A	User	string
A	SecurityToken	string
A	ReturnCode	string
A	ReturnMessage	string
		—
◆ E	RetaggingNotification	(RetaggingNotification)
E	NOTF_ID	long
E	NOTP_CDE	string
E	NOKD_CDE	string
E	NOST_CDE	string
E	OCR_DTE	dateTime
E	REF_NBR	string
E	ANTP_CDE	string
E	PATY_CDE	string
E	FLCT_CDE	string
E	SNUN_CDE	string
E	ANML_CDE	string
E	ORIM_CDE	string
E	OITP_CDE	string
E	OILB_CDE	string
E	MRK_VRS_NBR	string
E	TWO_MRK_FLG	boolean
E	PATY_CDE_DLV	string
E	PATY_CDE_FAC	string
E	NAM	string
E	STR	string
E	NBR	string
E	ZIP	string
E	CTY	string
E	MCP	string
E	NAM_DLV	string
E	STR_DLV	string
E	NBR_DLV	string
E	ZIP_DLV	string
E	CTY_DLV	string
E	MCP_DLV	string
E	NAM_FAC	string
E	STR_FAC	string
E	NBR_FAC	string
E	ZIP_FAC	string
E	CTY_FAC	string
E	MCP_FAC	string

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ExportRetaggingNotificationOverviewExportSchema>

Interface EXWMA - ExportWaterManureAllocation

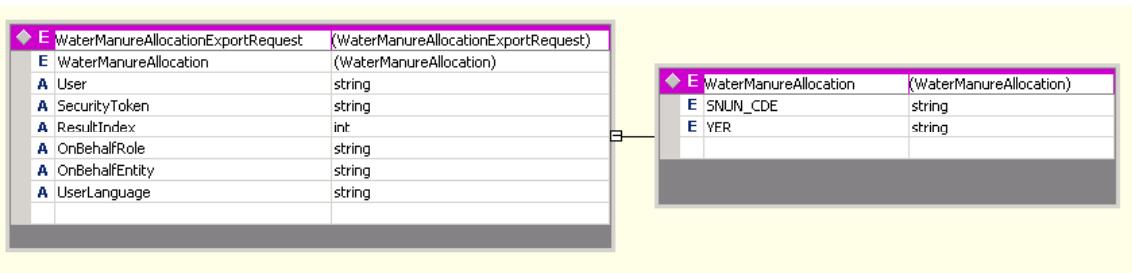
Direction: Export

Purpose: Export Water Manure Allocation so that Water and Manure production

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ExportWaterManureAllocation

Input Schema: WaterManureAllocationOverviewExportRequest



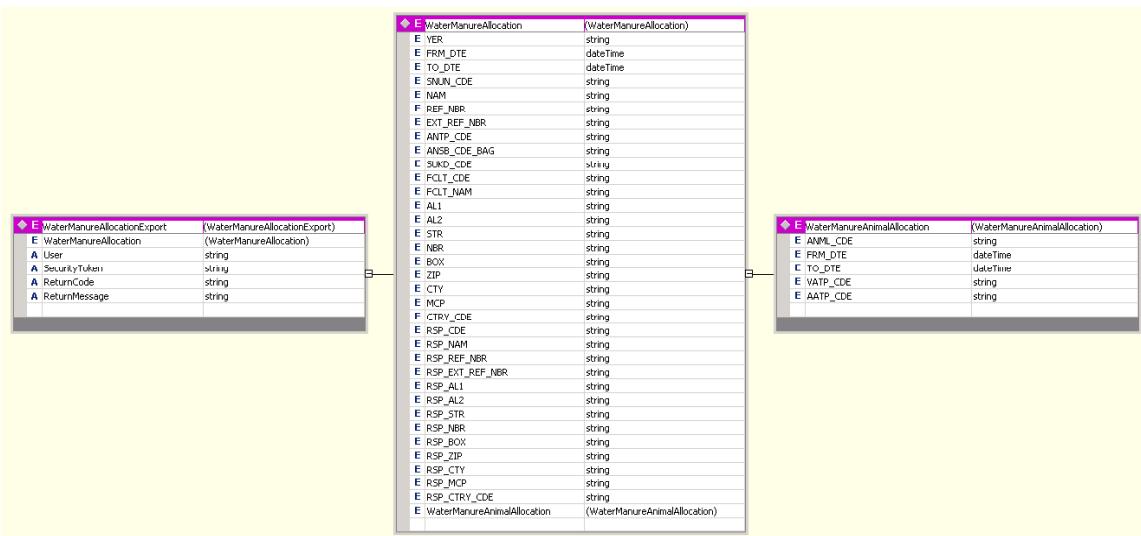
<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/WaterManureAllocationExportRequest>

XML Example(s)

Example EXWMA-1 – Retrieve the water and manure allocations for a number of Sanitary Units

```
<?xml version = '1.0' encoding = 'UTF-8'?>
<WaterManureAllocationExportRequest
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
    WaterManureAllocationExportRequestSchema"
    User="vzx5px" SecurityToken="N/A">
    <WaterManureAllocation>
        <SNUN_CDE>BE10027282-0101</SNUN_CDE>
        <YER>2008</YER>
    </WaterManureAllocation>
    <WaterManureAllocation>
        <SNUN_CDE>BE10097159-0101</SNUN_CDE>
        <YER>2008</YER>
    </WaterManureAllocation>
</WaterManureAllocationExportRequest>
```

Output Schema: WaterManureAllocationOverview



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ExportWaterManureAllocationOverviewExportSchema>

It is out of the scope of this document to discuss how to calculate Water/Manure information based on this information. Please consult the dedicated Water and Manure calculations user manual.

Interface - ImportAnimalNotification

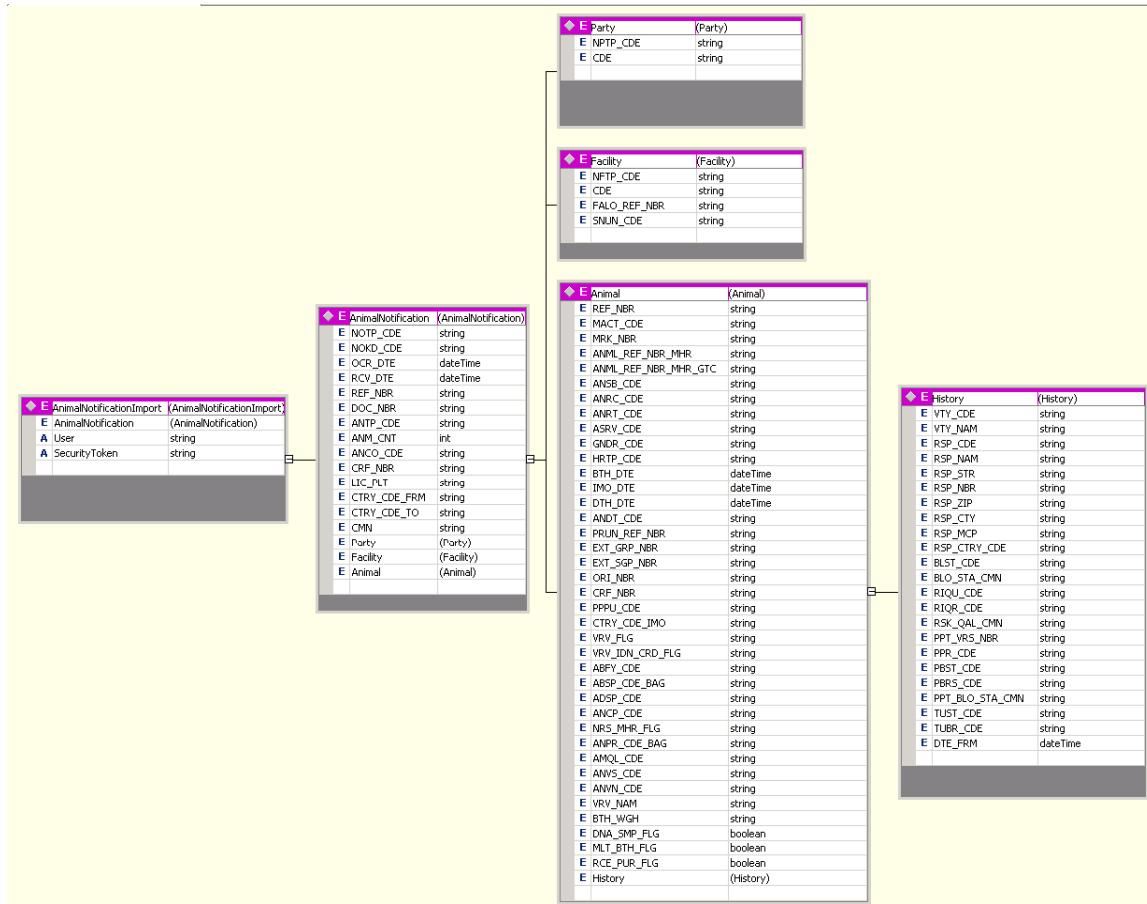
Direction: Import

Purpose: Submit births or import records

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ImportAnimalNotification

Input Schema: AnimalNotificationImport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/AnimalNotificationImportSchema>

XML Example(s)

Birth Notification

```

<AnimalNotificationImport User="TESTXML" SecurityToken="N/A"
  xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/AnimalNotificationImportSchema">
  <AnimalNotification>
    <NOTP_CDE>ARBTH</NOTP_CDE>
    <RCV_DTE>0001-01-01T00:00:00</RCV_DTE>
    <ANTP_CDE>BOV</ANTP_CDE>
    <ANM_CNT>1</ANM_CNT>
    <ANCO_CDE>ALIVE</ANCO_CDE>
    <Party>
      <NPTP_CDE>RSP</NPTP_CDE>
      <CDE>BE400004313</CDE>
    
```

```

</Party>
<Facility>
  <NFTP_CDE>DST</NFTP_CDE>
  <CDE>BE40006931</CDE>
  <SNUN_CDE>BE40006931-0101</SNUN_CDE>
</Facility>
<Animal>
  <REF_NBR>BE43332498</REF_NBR>
  <MACT_CDE>BB</MACT_CDE>
  <MRK_NBR>43332498</MRK_NBR>
  <ANML_REF_NBR_MHR>BE43033242</ANML_REF_NBR_MHR>
  <ANSB_CDE>BOV</ANSB_CDE>
  <ANRT_CDE>MILK</ANRT_CDE>
  <ASRV_CDE>LIV</ASRV_CDE>
  <GNDR_CDE>MAL</GNDR_CDE>
  <HRTP_CDE>WR</HRTP_CDE>
  <BTH_DTE>2008-10-30T00:00:00</BTH_DTE>
  <PPPU_CDE>URG</PPPU_CDE>
  <VRV_FLG>true</VRV_FLG>
  <VRV_IDN_CRD_FLG>true</VRV_IDN_CRD_FLG>
  <ABFY_CDE>LBFY</ABFY_CDE>
  <ADSP_CDE>EASY</ADSP_CDE>
  <ANCP_CDE>NRM</ANCP_CDE>
  <NRS_MHR_FLG>true</NRS_MHR_FLG>
  <ANVS_CDE>NONE</ANVS_CDE>
  <BTH_WGH>23</BTH_WGH>
  <DNA_SMP_FLG>false</DNA_SMP_FLG>
  <MLT_BTH_FLG>false</MLT_BTH_FLG>
  <RCE_PUR_FLG>false</RCE_PUR_FLG>
</Animal>
</AnimalNotification>
</AnimalNotificationImport>

```

Dead born calf notification – not marked

```

<AnimalNotificationImport User="TESTXML" SecurityToken="N/A"
  xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/AnimalNotificationImportSchema">
<AnimalNotification>
  <NOTP_CDE>ARBTH</NOTP_CDE>
  <RCV_DTE>0001-01-01T00:00:00</RCV_DTE>
  <ANTP_CDE>BOV</ANTP_CDE>
  <ANM_CNT>1</ANM_CNT>
  <ANCO_CDE>DDNOT</ANCO_CDE>
<Party>
  <NFTP_CDE>RSP</NFTP_CDE>
  <CDE>BE400223090</CDE>
</Party>
<Facility>
  <NFTP_CDE>DST</NFTP_CDE>
  <CDE>BE40096025</CDE>
  <SNUN_CDE>BE40096025-0101</SNUN_CDE>
</Facility>
<Animal>
  <ANML_REF_NBR_MHR>BE43281842</ANML_REF_NBR_MHR>
  <ANSB_CDE>BOV</ANSB_CDE>
  <BTH_DTE>2008-10-29T00:00:00</BTH_DTE>
  <DTH_DTE>2008-10-29T00:00:00</DTH_DTE>
  <PPPU_CDE>NO</PPPU_CDE>
  <VRV_FLG>false</VRV_FLG>
  <VRV_IDN_CRD_FLG>false</VRV_IDN_CRD_FLG>
  <NRS_MHR_FLG>true</NRS_MHR_FLG>
  <ANVS_CDE>NONE</ANVS_CDE>
  <BTH_WGH>0</BTH_WGH>
  <DNA_SMP_FLG>false</DNA_SMP_FLG>
  <MLT_BTH_FLG>false</MLT_BTH_FLG>
  <RCE_PUR_FLG>false</RCE_PUR_FLG>
</Animal>
</AnimalNotification>
</AnimalNotificationImport>

```

Dead born calf notification –marked

```

<AnimalNotificationImport User="TESTXML" SecurityToken="N/A"
  xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/AnimalNotificationImportSchema">
<AnimalNotification>
  <NOTP_CDE>ARBTH</NOTP_CDE>
  <RCV_DTE>0001-01-01T00:00:00</RCV_DTE>
  <ANTP_CDE>BOV</ANTP_CDE>
  <ANM_CNT>1</ANM_CNT>
  <ANCO_CDE>DDMKD</ANCO_CDE>
<Party>
  <NFTP_CDE>RSP</NFTP_CDE>
  <CDE>BE402979302</CDE>
</Party>
<Facility>
  <NFTP_CDE>DST</NFTP_CDE>

```

```

<CDE>BE40141489</CDE>
<SNUN_CDE>BE40141489-0101</SNUN_CDE>
</Facility>
<Animal>
<REF_NBR>BE48600665</REF_NBR>
<MACT_CDE>BE</MACT_CDE>
<MRK_NBR>48600665</MRK_NBR>
<ANML_REF_NBR_MHR-DE 0346949849 3</ANML_REF_NBR_MHR>
<ANSB_CDE>BOV</ANSB_CDE>
<ANRT_CDE>MILK</ANRT_CDE>
<ASRV_CDE>LIV</ASRV_CDE>
<GNDR_CDE>MAL</GNDR_CDE>
<HRTP_CDE>R</HRTP_CDE>
<BTH_DTE>2008-10-26T00:00:00</BTH_DTE>
<DTH_DTE>2008-10-26T00:00:00</DTH_DTE>
<PPPU_CDE>NRM</PPPU_CDE>
<VRV_FLG>true</VRV_FLG>
<VRV_IDN_CRD_FLG>true</VRV_IDN_CRD_FLG>
<ABFY_CDE>MLK</ABFY_CDE>
<ADSP_CDE>EASY</ADSP_CDE>
<ANCP_CDE>NRM</ANCP_CDE>
<NRS_MHR_FLG>true</NRS_MHR_FLG>
<ANVS_CDE>PREM</ANVS_CDE>
<BTH_WGH>25</BTH_WGH>
<DNA_SMP_FLG>false</DNA_SMP_FLG>
<MLT_BTH_FLG>true</MLT_BTH_FLG>
<RCE_PUR_FLG>false</RCE_PUR_FLG>
</Animal>
</AnimalNotification>
</AnimalNotificationImport>

```

Import Notification

```

<AnimalNotificationImport User="TESTXML" SecurityToken="N/A"
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/AnimalNotificationImportSchema">
<AnimalNotification>
<NOTP_CDE>ARIMO</NOTP_CDE>
<OCR_DTE>2008-11-17T12:00:00</OCR_DTE>
<REF_NBR>XXX123</REF_NBR>
<DOC_NBR>YYY456</DOC_NBR>
<ANTP_CDE>BOV</ANTP_CDE>
<ANN_CNT>1</ANN_CNT>
<ANCO_CDE>ALIVE</ANCO_CDE>
<CRF_NBR>FR20080077995</CRF_NBR>
<LIC_PLT>ABC123</LIC_PLT>
<CTRY_CDE_FRM>FR</CTRY_CDE_FRM>
<Party>
<NPTP_CDE>DLR</NPTP_CDE>
<CDE>BE12500104</CDE>
</Party>
<Facility>
<NFTP_CDE>SRC</NFTP_CDE>
<CDE>BE40070824</CDE>
<SNUN_CDE>BE40070824-0150</SNUN_CDE>
</Facility>
<Animal>
<MACT_CDE>FR</MACT_CDE>
<MRK_NBR>5940143152</MRK_NBR>
<ANML_REF_NBR_MHR>FR5940183831</ANML_REF_NBR_MHR>
<ANSB_CDE>VCALF</ANSB_CDE>
<ANRT_CDE>MILK</ANRT_CDE>
<GNDR_CDE>FEM</GNDR_CDE>
<HRTP_CDE>BLW</HRTP_CDE>
<PPPU_CDE>NRM</PPPU_CDE>
<PRUN_REF_NBR>4602500153</PRUN_REF_NBR>
<BTH_DTE>2007-01-01T00:00:00</BTH_DTE>
<IMO_DTE>2008-11-17T00:00:00</IMO_DTE>
<CRF_NBR>FR20080077995</CRF_NBR>
<CTRY_CDE IMO>FR</CTRY_CDE IMO>
</Animal>
</AnimalNotification>
</AnimalNotificationImport>

```

Output Schema: Interaction Result

See definition Interaction Result Schema

Interface IMCHN - ImportChangeNotification

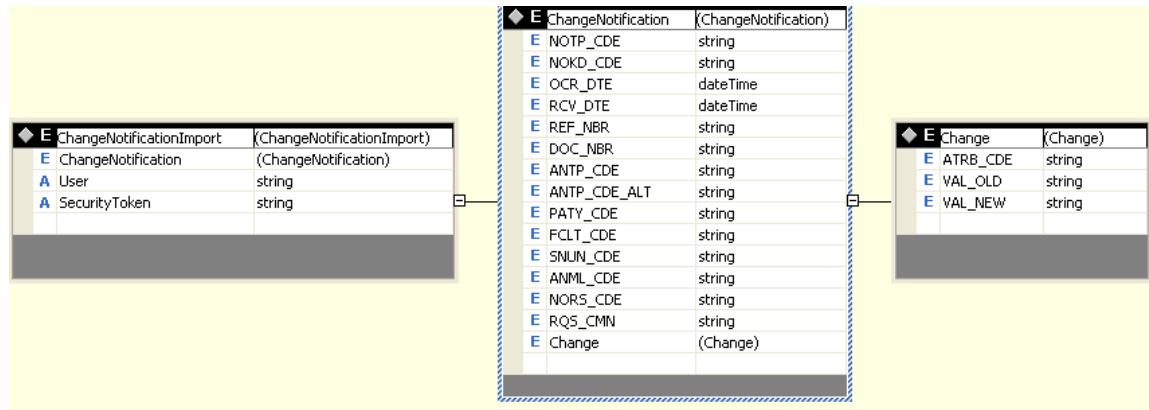
Direction: Import

Purpose: Submit changes on an Animal, a Facility, a Sanitary Unit or even a Party

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ImportChangeNotification

Input Schema: ChangeNotificationImport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ChangeNotificationImportSchema>

XML Example(s)

Change of hair-type

```

<ChangeNotificationImport User="string" SecurityToken="string"
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ChangeNotificationImportSchema">
    <ChangeNotification>
        <NOTP_CDE>CHANM</NOTP_CDE>
        <NOKD_CDE>...</NOKD_CDE>
        <OCR_DTE>2007-11-16T23:10:00</OCR_DTE>
        <REF_NBR>2322-343453/1</REF_NBR>
        <DOC_NBR>2322-343453</DOC_NBR>
        <ANML_CDE>BE12345678</ANML_CDE>
        <NORS_CDE>...</NORS_CDE>
        <RQS_CMN>some comment</RQS_CMN>
        <Change>
            <ATRB_CDE>HRT&lt;/ATRB_CDE>
            <VAL_NEW>BW</VAL_NEW>
        </Change>
        <Change>
            <ATRB_CDE>GNDR_CDE</ATRB_CDE>
            <VAL_NEW>OX</VAL_NEW>
        </Change>
    </ChangeNotification>
</ChangeNotificationImport>

```

Output Schema: Interaction Result

See definition Interaction Result Schema

CHANM	ChangeAnimal
CHSNU	ChangeSanitaryUnit
CHFCY	ChangeFacility
CHPTY	ChangeParty

Possible Values for ATRB_CDE as defined today ... It is still not clear whether all discussed attributes will also be in the final release as sometimes there might be organizational or juridical reasons for not doing it (see items in italic). E.g. an animal can not have its earmark changed yet ANID – attributes suggest this possibility

The goal is to make this mechanism of attribute changes more or less configurable and hence extensible. An initial list of possible attribute codes is given in the table underneath. Obviously depending on the context these attributes can trigger changes on animals, sanitary units, parties or facilities.

Some attributes reappear in multiple categories – this has more to do with the display on the screens. Currently a change notification should only update attributes in one category.

Cat.	Category Name	Attribute Code	Attribute Description
ANMC	Animal Characteristics	HRTP_CDE ANRT_CDE	Hairtype Code Animal Race Type
		ANRC_CDE GNDR_CDE	Animal Race Gender
		ANSB_CDE	Animal Sub Type
ANMB	Animal Birth	BTH_DTE FCLT_CDE_BTH CDE_MHR CDE_MHR_GTC	Birth Date Code Facility of Birth Code Mother Code Genetic Mother
<i>ANID</i> <i>(ANRT)</i>	<i>Animal Identification</i>	<i>MACT_CDE</i> <i>MRK_NBR</i> MRK_NBR_VRS_1 MRK_NBR_VRS_2	<i>Marking Country Code</i> <i>Marking Number</i>
ANLO <i>(ANLF)</i>	Animal Location	FCLT_CDE SNUN_CDE	Facility Code Sanitary Unit Code
ANAT <i>(ANCI)</i>	Animal Attributes	CDE_MHR CDE_MHR_GTC ANSB_CDE ANRT_CDE	Code Mother Code Genetic Mother Animal Sub Type Animal Race Type

		ANRC_CDE	Animal Race
		ASRV_CDE	Gender
		GNDR_CDE	Hairtype Code
		HRTP_CDE	External Group Number
		EXT_GRP_NBR	External Subgroup Number
		EXT_SGP_NBR	Production Reference Number
		PRUN_REF_NBR	
ANMN	Animal Movements	IMO_DTE	Import Date
		EPO_DTE	Export Date
		FCLT_CDE_BTH	Facility Code Of Birth
		FCLT_CDE_END	Facility Code Of End
		ORI_NBR	Local Certificate of Facility of Birth
		CRF_NBR	International Certificate of Facility of Birth
		CTRY_CDE_IMO	Country Code Import
		CTRY_CDE_EPO	Country Code Export
ADNA	Animal DNA	DNA_ANA_FLG	Animal D.n.a. Analysis Flag
		DNA_ANA_REF_NBR	Animal D.n.a. Analysis Reference Number
		DNA_SMP_FLG	Animal D.n.a. Sample Flag
		DNAQ_CDE	D.n.a. Quality Code
AVRV	Animal VRV	VRV_FLG	VRV tracked animal
		ABFY_CDE	Beefiness
		ABSP_CDE_BAG	Birth Specifics
		ADSP_CDE	Ease of Delivery
		ANCP_CDE	Conception
		NRS_MHR_FLG	Nurture By Mother Flag
		ANPR_CDE_BAG	Premium Codes
		AMQL_CDE	AnimalMeatQualityLabel
		VRV_IDN_CRD_FLG	Identification Card Flag
		ANVS_CDE	Verification Specification
		ANVN_CDE	Name Code
		VRV_NAM	Name
		BTH_WGH	Birth Weight
		FRT_DLV_DTE	First delivery date = Date when animal gave first birth
		LST_DLV_DTE	Last delivery date = Date when animal gave last birth
		FRT_MLK_DTE	First Milk date = Date when animal gave first milk
		FRT_NUR_DTE	First Nursing date = Date when animal gave first milk to a calf
ADR	Address	AL1	Address Line 1
		AL2	Address Line 2
		STR	Street
		NBR	Number
		BOX	Box
		ZIP	Zip
		CTY	City
		MCP	Municipal

		CTRY_CDE TPH	Country Telephone
<i>NEW</i>	<i>New</i>	<i>PATP_CDE</i> <i>RLM_REG_NBR</i> <i>NEW_SNUN_ANTP</i> <i>NEW_SNUN</i> <i>NEW_SNUN_DES</i>	<i>Request for New Party Type</i> <i>Specification of Real Register Number</i> <i>Request for New Sanitary Unit Animal Type</i> <i>Request for New Sanitary Unit</i> <i>Request for New Sanitary Unit - Description</i>
		<i>PATY_CDE_RSP</i>	<i>New Responsible</i>

Interface IMINN - ImportInventoryNotification

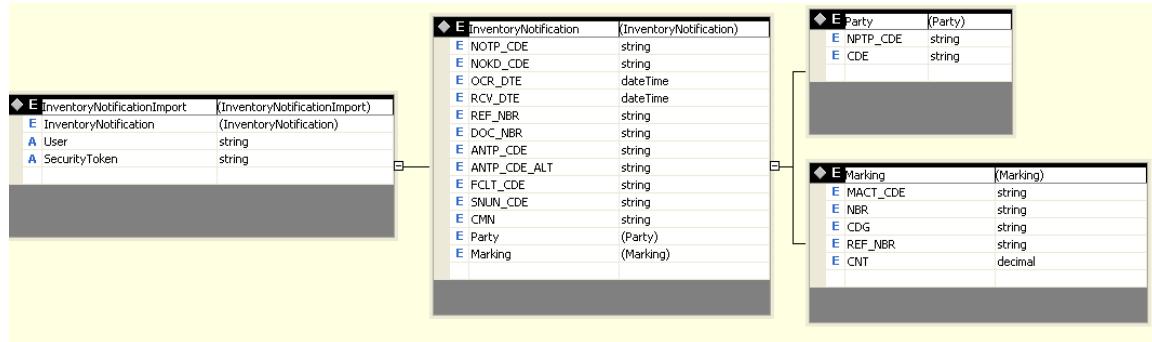
Direction: Import

Purpose: Submit marking inventory results

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ImportInventoryNotification

Input Schema: InventoryNotificationImport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/InventoryNotificationImportSchema>

XML Example(s)

```
<InventoryNotificationImport User="string" SecurityToken="string"  
xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/  
InventoryNotificationImport">  
    <InventoryNotification>  
        <NOTP_CDE>string</NOTP_CDE>  
        <NOKD_CDE>string</NOKD_CDE>  
        <OCR_DTE>dateTime</OCR_DTE>  
        <REF_NBR>string</REF_NBR>  
        <DOC_NBR>string</DOC_NBR>  
        <ANTP_CDE>string</ANTP_CDE>  
        <ANTP_CDE_ALT>string</ANTP_CDE_ALT>  
        <FCLT_CDE>string</FCLT_CDE>  
        <SNUN_CDE>string</SNUN_CDE>  
        <CMN>string</CMN>  
        <Party>  
            <NPTP_CDE>string</NPTP_CDE>  
            <CDE>string</CDE>  
        </Party>  
        <Party>  
            <NPTP_CDE>string</NPTP_CDE>  
            <CDE>string</CDE>  
        </Party>  
        <Marking>  
            <MACT_CDE>string</MACT_CDE>  
            <NBR>string</NBR>  
            <CDG>string</CDG>  
            <REF_NBR>string</REF_NBR>  
            <CNT>decimal</CNT>  
        </Marking>  
        <Marking>  
            <MACT_CDE>string</MACT_CDE>  
            <NBR>string</NBR>
```

```
<CDG>string</CDG>
<REF_NBR>string</REF_NBR>
<CNT>decimal</CNT>
</Marking>
</InventoryNotification>
</InventoryNotification>
</InventoryNotificationImport>
```

Output Schema: Interaction Result

See definition Interaction Result Schema

Interface IMMWN - ImportManureWaterNotification

Direction: Import or Export or both????

Purpose: Submit water/manure consumption statistics / corrections / Retrieve calculated water/manure consumption statistics

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ImportManureWaterNotification

Input Schema: ManureWaterNotificationImport

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ManureWaterNotificationImportSchema>

XML Example(s)

Output Schema: Interaction Result

See definition Interaction Result Schema

Interface IMMVN - ImportMovementNotification

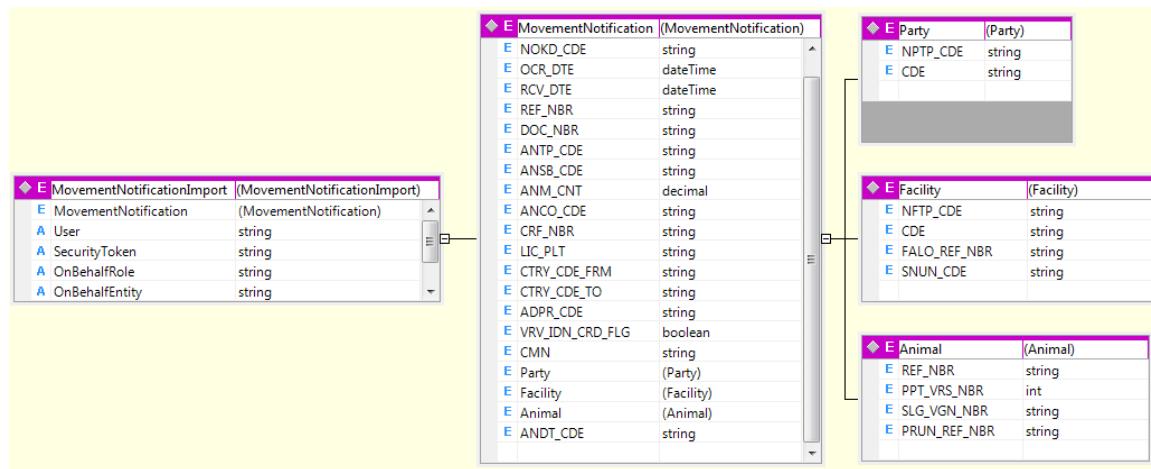
Direction: Import

Purpose: Submit a movement (e.g. Mobile App)

Layout-Documentation:

http://gas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ImportMovementNotification

Input Schema: MovementNotificationImport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/MovementNotificationImportSchema>

XML Example(s)

Departure of an animal from a FARM

```
<MovementNotificationImport User="string" SecurityToken="string"
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
    MovementNotificationImportSchema">
    <MovementNotification>
        <NOTP_CDE>MMDPR</NOTP_CDE>
        <OCR_DTE>2008-01-15T09:23:45</OCR_DTE>
        <REF_NBR>...</REF_NBR>
        <DOC_NBR>...</DOC_NBR>
        <ANTP_CDE>BOV</ANTP_CDE>
        <ANM_CNT>3</ANM_CNT>
        <ANCO_CDE>ALIVE</ANCO_CDE>
        <CRF_NBR>...</CRF_NBR>
        <LIC_PLT>KMJ496</LIC_PLT>
        <CMN>string</CMN>
        <Party>
            <NPTP_CDE>RSP</NPTP_CDE>
            <CDE>BE12345678</CDE>
        </Party>
        <Party>
            <NPTP_CDE>TRA</NPTP_CDE>
            <CDE>BE56781234</CDE>
        </Party>
        <Facility>
            <NFTP_CDE>SRC</NFTP_CDE>
            <CDE>BE12348765</CDE>
        </Facility>
    </MovementNotification>
```

```

<FALO_REF_NBR>string</FALO_REF_NBR>
<SNUN_CDE>string</SNUN_CDE>
</Facility>
<Animal>
    <REF_NBR>BE34534534</REF_NBR>
    <PPT_VRS_NBR>3</PPT_VRS_NBR>
</Animal>
<Animal>
    <REF_NBR>BE34534536      33100456576</REF_NBR>
</Animal>
<Animal>
    <REF_NBR>BE34534537      33100456576</REF_NBR>
</Animal>
</MovementNotification>
</MovementNotificationImport>

```

Arrival animals on a Market

```

<?xml version="1.0"?>
<MovementNotificationImport xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema" User="TESTXML" SecurityToken="N/A"
    OnBehalfRole="0" OnBehalfEntity="0"
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        MovementNotificationImportSchema">
<MovementNotification>
    <NOTP_CDE>MMARV</NOTP_CDE>
    <OCR_DTE>2008-11-04T16:12:24</OCR_DTE>
    <ANTP_CDE>BOV</ANTP_CDE>
    <ANM_CNT>1</ANM_CNT>
    <ANCO_CDE>ALIVE</ANCO_CDE>
    <LIC_PLT>HYE-343</LIC_PLT>
    <Party>
        <NPTP_CDE>TRA</NPTP_CDE>
        <CDE>BE12002473</CDE>
    </Party>
    <Party>
        <NPTP_CDE>DLR</NPTP_CDE>
        <CDE>BE12500104</CDE>
    </Party>
    <Facility>
        <NFTP_CDE>DST</NFTP_CDE>
        <CDE>BE12500104</CDE>
        <SNUN_CDE />
    </Facility>
    <Animal>
        <REF_NBR>BE118273633</REF_NBR>
        <PPT_VRS_NBR>2</PPT_VRS_NBR>
    </Animal>
</MovementNotification>
</MovementNotificationImport>

```

Arrival multiple animals on a Market

```

<MovementNotificationImport User="UDLR" SecurityToken="string"
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        MovementNotificationImportSchema">
<MovementNotification>
    <NOTP_CDE>MMARV</NOTP_CDE>
    <OCR_DTE>2008-10-16T09:23:45</OCR_DTE>
    <REF_NBR>12345678</REF_NBR>
    <DOC_NBR></DOC_NBR>
    <ANTP_CDE>BOV</ANTP_CDE>
    <ANCO_CDE>ALIVE</ANCO_CDE>

```

```

<LIC_PLT>ABC123</LIC_PLT>
<CMN></CMN>
<Party>
  <NPTP_CDE>DLR</NPTP_CDE>
  <CDE>BE102294097</CDE>
</Party>
<Party>
  <NPTP_CDE>TRA</NPTP_CDE>
  <CDE>BE102294097</CDE>
</Party>
<Facility>
  <NFTP_CDE>DST</NFTP_CDE>
  <CDE>BE92600104</CDE>
</Facility>
<Animal>
  <REF_NBR>BE19158588</REF_NBR>
  <PPT_VRS_NBR>3</PPT_VRS_NBR>
</Animal>
<Animal>
  <REF_NBR>BE19669813</REF_NBR>
  <PPT_VRS_NBR>2</PPT_VRS_NBR>
</Animal>
<Animal>
  <REF_NBR>BE19669812</REF_NBR>
  <PPT_VRS_NBR>2</PPT_VRS_NBR>
</Animal>
<Animal>
  <REF_NBR>BE19669805</REF_NBR>
  <PPT_VRS_NBR>2</PPT_VRS_NBR>
</Animal>
<Animal>
  <REF_NBR>BE19669806</REF_NBR>
  <PPT_VRS_NBR>2</PPT_VRS_NBR>
</Animal>
<Animal>
  <REF_NBR>BE19669812</REF_NBR>
  <PPT_VRS_NBR>2</PPT_VRS_NBR>
</Animal>
</MovementNotification>
</MovementNotificationImport>

```

Departure to a slaughterhouse – with slaughter vignette number...

```

<?xml version="1.0"?>
<MovementNotificationImport xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" User="TESTXML" SecurityToken="N/A"
  OnBehalfRole="0" OnBehalfEntity="0"
  xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
    MovementNotificationImportSchema">

  <MovementNotification>
    <NOTP_CDE>MMDPS</NOTP_CDE>
    <OCR_DTE>2008-10-30T00:00:00</OCR_DTE>
    <ANTP_CDE>BOV</ANTP_CDE>
    <ANSB_CDE>BOV</ANSB_CDE>
    <ANM_CNT>1</ANM_CNT>
    <ANCO_CDE>ALIVE</ANCO_CDE>
    <VRV_IDN_CRD_FLG>false</VRV_IDN_CRD_FLG>
    <Party>
      <NPTP_CDE>DLR</NPTP_CDE>
      <CDE>BE402979302</CDE>
    </Party>
    <Facility>
      <NFTP_CDE>SRC</NFTP_CDE>
      <CDE>BE10046880</CDE>
      <SNUN_CDE>BE10046880-0101</SNUN_CDE>
    </Facility>
    <Animal>
      <REF_NBR>BE16455223</REF_NBR>
      <PPT_VRS_NBR>2</PPT_VRS_NBR>
      <SLG_VGN_NBR>100-46880231020</SLG_VGN_NBR>
    </Animal>
  </MovementNotification>
</MovementNotificationImport>

```

```

        </Animal>
    </MovementNotification>
</MovementNotificationImport>

```

Departure from a farm to Rendac ...

```

<?xml version="1.0"?>
<MovementNotificationImport xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema" User="TESTXML"
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        MovementNotificationImportSchema">

    <MovementNotification>
        <NOTP_CDE>MMDPD</NOTP_CDE>
        <OCR_DTE>2008-10-20T00:00:00</OCR_DTE>
        <RCV_DTE>0001-01-01T00:00:00</RCV_DTE>
        <ANTP_CDE>BOV</ANTP_CDE>
        <ANSB_CDE>BOV</ANSB_CDE>
        <ANDT_CDE>C36</ANDT_CDE>
        <ANM_CNT>1</ANM_CNT>
        <ANCO_CDE>DEAD</ANCO_CDE>
        <VRV_IDN_CRD_FLG>false</VRV_IDN_CRD_FLG>
        <Party>
            <NPTP_CDE>DLR</NPTP_CDE>
            <CDE>BE03313736</CDE>
        </Party>
        <Party>
            <NPTP_CDE>TRA</NPTP_CDE>
            <CDE>BE03313736</CDE>
        </Party>
        <Facility>
            <NFTP_CDE>SRC</NFTP_CDE>
            <CDE>BE40141489</CDE>
            <SNUN_CDE>BE40141489-0101</SNUN_CDE>
        </Facility>
        <Facility>
            <NFTP_CDE>DST</NFTP_CDE>
            <CDE>BE03313736</CDE>
        </Facility>
        <Animal>
            <REF_NBR>DE 0580027802 3</REF_NBR>
            <PPT_VRS_NBR>3</PPT_VRS_NBR>
        </Animal>
    </MovementNotification>
</MovementNotificationImport>

```

Arrival at Rendac Simple ...

```

<?xml version="1.0"?>
<MovementNotificationImport xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema" User="TESTXML"
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        MovementNotificationImportSchema">

    <MovementNotification>
        <NOTP_CDE>MMDPT</NOTP_CDE>
        <OCR_DTE>2000-01-15T00:00:00</OCR_DTE>
        <ANTP_CDE>BOV</ANTP_CDE>
        <ANSB_CDE>BOV</ANSB_CDE>
        <ANDT_CDE>C36</ANDT_CDE>
        <ANM_CNT>1</ANM_CNT>
        <ANCO_CDE>DEAD</ANCO_CDE>
        <Facility>

```

```

<NFTP_CDE>DST</NFTP_CDE>
<CDE> BE03313736</CDE>
</Facility>
<Animal>
    <REF_NBR>BE118892877</REF_NBR>
</Animal>
</MovementNotification>
</MovementNotificationImport>

```

Registering an Export Movement...

```

<?xml version="1.0"?>
<MovementNotificationImport xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema" User=" TESTXML " SecurityToken="N/A"
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        MovementNotificationImportSchema">

    <MovementNotification>
        <NOTP_CDE>MMEPO</NOTP_CDE>
        <OCR_DTE>2008-11-05T13:19:28</OCR_DTE>
        <DOC_NBR>INTRA.BE.2008.0029632-V1</DOC_NBR>
        <CRF_NBR>BE/IC/ANT/2008/4023/1995#</CRF_NBR>
        <ANTP_CDE>BOV</ANTP_CDE>
        <ANM_CNT>1</ANM_CNT>
        <ANCO_CDE>ALIVB</ANCO_CDE>
        <LIC_PLT>HYE-343</LIC_PLT>
        <CTRY_CDE_FRM>NL</CTRY_CDE_FRM>
        <Party>
            <NFTP_CDE>TRA</NFTP_CDE>
            <CDE>BE12002473</CDE>
        </Party>
        <Party>
            <NFTP_CDE>DLR</NFTP_CDE>
            <CDE>BE12500104</CDE>
        </Party>
        <Facility>
            <NFTP_CDE>SRC</NFTP_CDE>
            <CDE>BE12500104</CDE>
            <SNUN_CDE>BE12500104-0101</SNUN_CDE>
        </Facility>
        <Facility>
            <NFTP_CDE>ORI</NFTP_CDE>
            <CDE>BE10081457</CDE>
            <SNUN_CDE>BE10081457-0101</SNUN_CDE>
        </Facility>
        <Animal>
            <REF_NBR>BE117833993</REF_NBR>
            <PPT_VRS_NBR>2</PPT_VRS_NBR>
        </Animal>
    </MovementNotification>
</MovementNotificationImport>

```

Output Schema: Interaction Result

See definition Interaction Result Schema

Interface IMPPN - ImportPopulationNotification

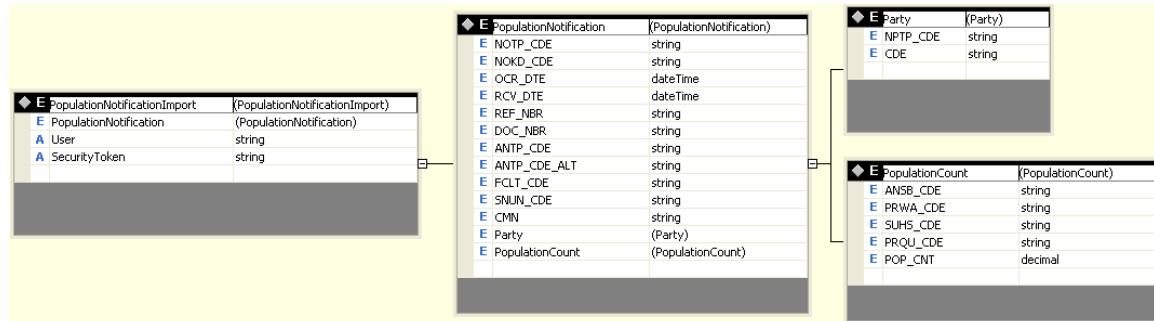
Direction: Import

Purpose: Submit population inventory results

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ImportPopulationNotification

Input Schema: PopulationNotificationImport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/PopulationNotificationImportSchema>

XML Example(s)

```
<PopulationNotificationImport User="string" SecurityToken="string"
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        PopulationNotificationImport">
    <PopulationNotification>
        <NOTP_CDE>string</NOTP_CDE>
        <NOKD_CDE>string</NOKD_CDE>
        <OCR_DTE>dateTime</OCR_DTE>
        <REF_NBR>string</REF_NBR>
        <DOC_NBR>string</DOC_NBR>
        <ANTP_CDE>string</ANTP_CDE>
        <ANTP_CDE_ALT>string</ANTP_CDE_ALT>
        <FCLT_CDE>string</FCLT_CDE>
        <SNUN_CDE>string</SNUN_CDE>
        <CMN>string</CMN>
        <Party>
            <NPTP_CDE>string</NPTP_CDE>
            <CDE>string</CDE>
        </Party>
        <Party>
            <NPTP_CDE>string</NPTP_CDE>
            <CDE>string</CDE>
        </Party>
        <PopulationCount>
            <ANSB_CDE>string</ANSB_CDE>
            <PRWA_CDE>string</PRWA_CDE>
            <SUHS_CDE>string</SUHS_CDE>
            <PRQU_CDE>string</PRQU_CDE>
            <POP_CNT>decimal</POP_CNT>
        </PopulationCount>
        <PopulationCount>
            <ANSB_CDE>string</ANSB_CDE>
        </PopulationCount>
    </PopulationNotification>
</PopulationNotificationImport>
```

```
<PRWA_CDE>string</PRWA_CDE>
<SUHS_CDE>string</SUHS_CDE>
<PRQU_CDE>string</PRQU_CDE>
<POP_CNT>decimal</POP_CNT>
</PopulationCount>
</PopulationNotification>
</PopulationNotificationImport>
```

Output Schema: Interaction Result

See definition Interaction Result Schema

Interface IMPUN - ImportProductionUnitNotification

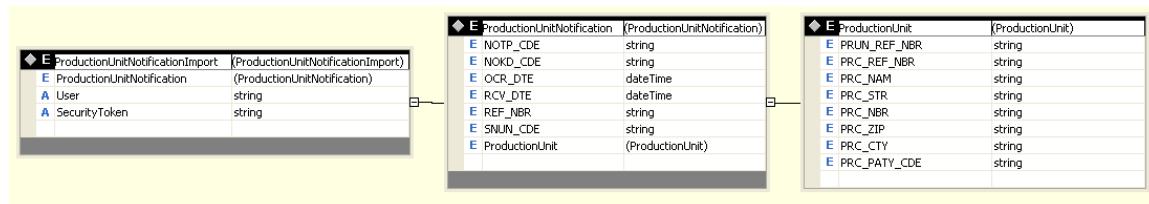
Direction: Import

Purpose: Submit assignments of production units (exploitation units) to Sanitary Units

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ImportProductionUnitNotification

Input Schema: ProductionUnitNotificationImport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/ProductionUnitNotificationImportSchema>

XML Example(s)

Output Schema: Interaction Result

See definition Interaction Result Schema

Interface IMRTN - ImportRetaggingNotification

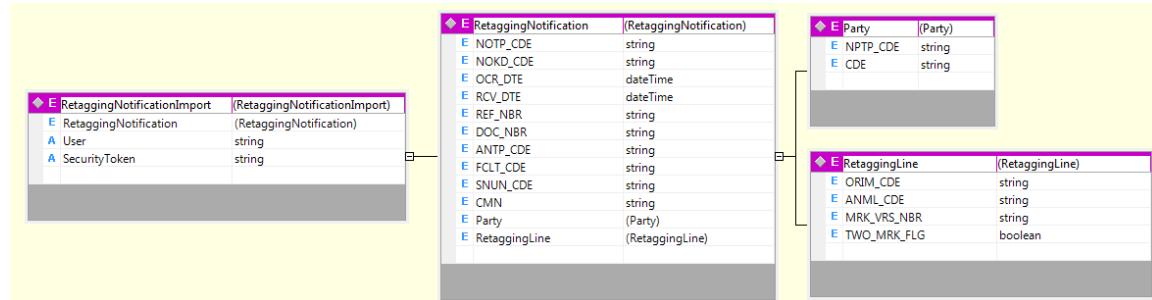
Direction: Import

Purpose: Submit Retagging notifications into the system

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ImportRetaggingNotification

Input Schema: RetaggingNotificationImport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/RetaggingNotificationImportSchema>

XML Example(s)

```
<?xml version="1.0" encoding="utf-8"?>
<RetaggingNotificationImport User="TESTXML"
xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/RetaggingNotificationImportSchema">
    <RetaggingNotification>
        <NOTP_CDE>RETAG</NOTP_CDE>
        <NOKD_CDE></NOKD_CDE>
        <OCR_DTE>2008-09-04T12:30:00</OCR_DTE>
        <RCV_DTE>2008-09-04T12:30:00</RCV_DTE>
        <REF_NBR>Test_retag</REF_NBR>
        <DOC_NBR>1234</DOC_NBR>
        <ANTP_CDE>BOV</ANTP_CDE>
        <FCLT_CDE>BE60012911</FCLT_CDE>
        <SNUN_CDE>BE60012911-0101</SNUN_CDE>
        <CMN>Comment2</CMN>
        <Party>
            <NPTP_CDE>ORDR</NPTP_CDE>
            <CDE>BE100023073</CDE>
        </Party>
        <Party>
            <NPTP_CDE>DELV</NPTP_CDE>
            <CDE>BE100023073</CDE>
        </Party>
        <RetaggingLine>
            <ORIM_CDE>DGZ-V-HOM-M7-R-001</ORIM_CDE>
            <ANML_CDE>BE60717242</ANML_CDE>
            <MRK_VRS_NBR>1</MRK_VRS_NBR>
            <TWO_MRK_FLG>false</TWO_MRK_FLG>
        </RetaggingLine>
    </RetaggingNotification>
</RetaggingNotificationImport>
```

```
</RetaggingLine>
<RetaggingLine>
<ORIM_CDE>DGZ-V-HOM-M7-R-001</ORIM_CDE>
<ANML_CDE>BE60666684</ANML_CDE>
<MRK_VRS_NBR>2</MRK_VRS_NBR>
<TWO_MRK_FLG>true</TWO_MRK_FLG>
</RetaggingLine>
</RetaggingNotification>
</RetaggingNotificationImport>
```

Output Schema: Interaction Result

See definition Interaction Result Schema

Interface IMRSN - ImportRiskNotification

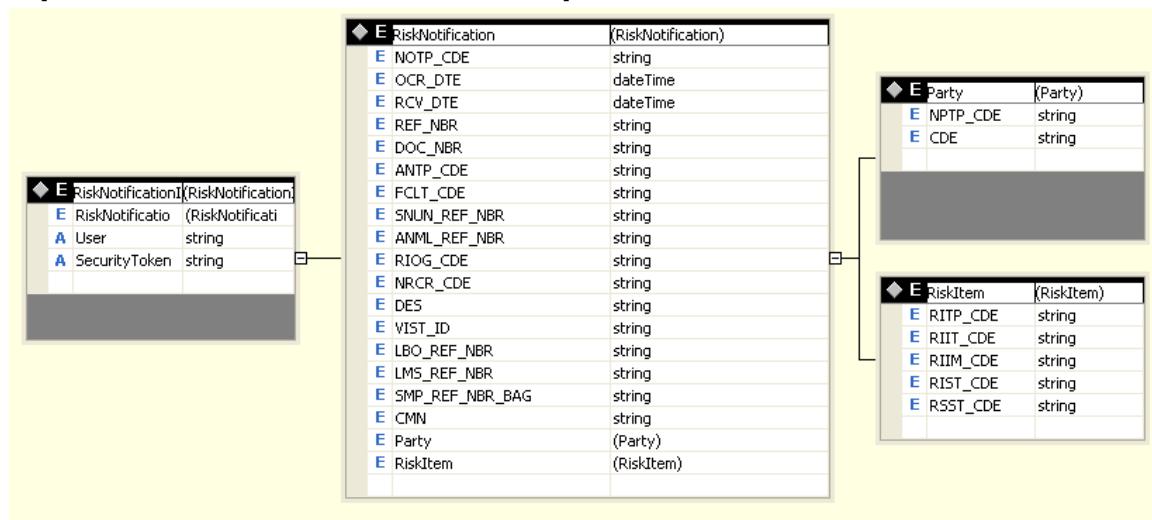
Direction: Import

Purpose: Submit risk notifications, laboratory results,...

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ImportRiskNotification

Input Schema: RiskNotificationImport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/RiskNotificationImportSchema>

XML Example(s) - Todo

Output Schema: Interaction Result

See definition Interaction Result Schema

Interface IMTMN - ImportTreatmentNotification

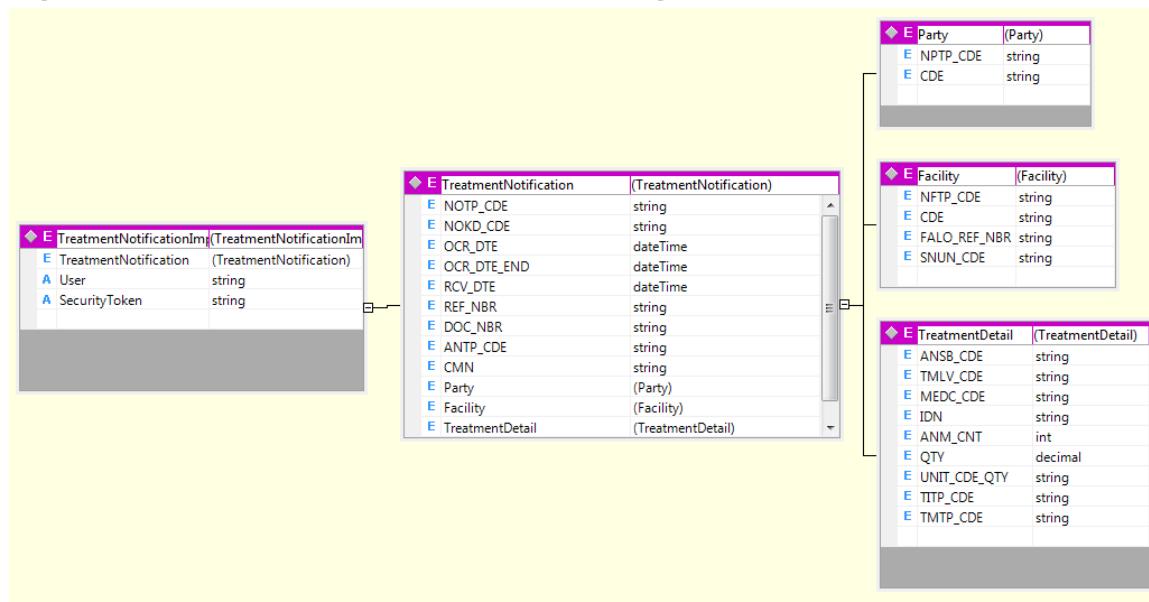
Direction: Import

Purpose: Submit treatments (e.g. Bluetongue) into Sanitrace

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ImportTreatmentNotificatio

Input Schema: TreatmentNotificationImport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/TreatmentNotificationImportSchema>

XML Example(s)

```
<?xml version="1.0" encoding="utf-8"?>
<TreatmentNotificationImport User="string" SecurityToken="string"
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        TreatmentNotificationImport">
    <TreatmentNotification>
        <NOTP_CDE>TMT</NOTP_CDE>
        <OCR_DTE>2008/04/11T11:30:00</OCR_DTE>
        <OCR_DTE_END>2008/04/11T12:30:00</OCR_DTE_END>
        <REF_NBR>XXXX</REF_NBR>
        <ANTP_CDE>BOV</ANTP_CDE>
        <CMN>...</CMN>
        <Party>
            <NPTP_CDE>HND</NPTP_CDE>
            <CDE>BE12345678</CDE>
        </Party>
        <Party>
            <NPTP_CDE>RSP</NPTP_CDE>
            <CDE>BE87654321</CDE>
        </Party>
        <Facility>
```

```
<NFTP_CDE>FARM</NFTP_CDE>
<CDE>BE87654321</CDE>
<SNUN_CDE> BE87654321-0101</SNUN_CDE>
</Facility>
<TreatmentDetail>
  <ANSB_CDE>BOV</ANSB_CDE>
  <TMLV_CDE>GRP</TMLV_CDE>
  <MEDC_CDE>BLTNG</MEDC_CDE>
  <IDN>Stable 1</IDN>
  <ANM_CNT>20</ANM_CNT>
  <QTY>20</QTY>
  <UNIT_CDE_QTY>ST</UNIT_CDE_QTY>
  <TITP_CDE>VAC1</TITP_CDE>
  <TMTP_CDE>SCINJ</TMTP_CDE>
</TreatmentDetail>
</TreatmentNotificationImport>
```

Output Schema: Interaction Result

See definition Interaction Result Schema

Interface IMPMS - ImportMarkingSeries

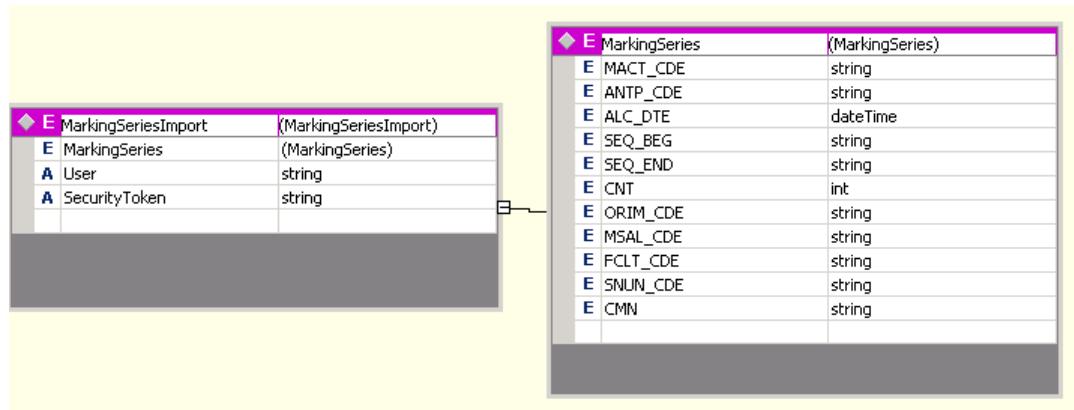
Direction: Import

Purpose: Submit marking series allocations,...

Layout-Documentation:

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ImportMarkingSeries

Input Schema: MarkingSeriesImport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/MarkingSeriesImportSchema>

XML Example(s)

XML Example 1 – Manually allocating earmarks

```
<?xml version="1.0" encoding="utf-8" ?>
<MarkingSeriesImport
  xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/MarkingSeriesImportSchema">

  <User>string</User>
  <SecurityToken>N/A</SecurityToken>
  <MarkingSeries>
    <MACT_CDE>BE</MACT_CDE>
    <ANTP_CDE>BOV</ANTP_CDE>
    <SEQ_BEG>00001217</SEQ_BEG>
    <SEQ_END>00001218</SEQ_END>
    <CNT>2</CNT>
    <ORIM_CDE>DGZ-V-POM-ULTRA-R-001</ORIM_CDE>
    <MSAL_CDE>AMANU</MSAL_CDE>
    <SNUN_CDE>BE70052294-0101</SNUN_CDE>
    <CMN>Test Import</CMN>
  </MarkingSeries>
</MarkingSeriesImport>
```

Interface IMPST - ImportStatusUpdateNotification

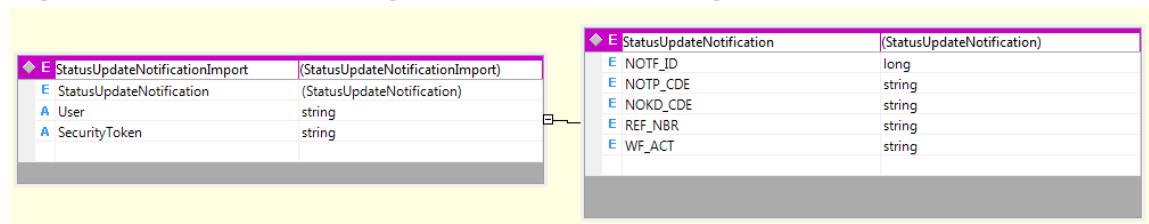
Direction: Import

Purpose: Submit a status update notification – currently limited to treatments but extendable to other notifications

Layout-Documentation:

http://gas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx?op=ImportStatusUpdateNotification

Input Schema: StatusUpdateNotificationImport



<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices>StatusUpdateNotificationImportSchema>

XML Example 1 – cancelling a treatment via notification id

```
<?xml version="1.0" encoding="utf-8"?>
<StatusUpdateNotificationImport User="string" SecurityToken="string"
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        StatusUpdateNotificationImportSchema">

    <StatusUpdateNotification>
        <NOTP_CDE>TMT</NOTP_CDE>
        <NOTF_ID>5006782</NOTF_ID>
        <WF_ACT>CAN</WF_ACT >
    </StatusUpdateNotification >
</ StatusUpdateNotificationImport>
```

XML Example 2 – cancelling a treatment via notification reference number

```
<?xml version="1.0" encoding="utf-8"?>
<StatusUpdateNotificationImport User="string" SecurityToken="string"
    xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/
        StatusUpdateNotificationImportSchema">

    <StatusUpdateNotification>
        <NOTP_CDE>TMT</NOTP_CDE>
        <REF_NBR>5006782</REF_NBR>
        <WF_ACT>CAN</WF_ACT >
    </StatusUpdateNotification >
</ StatusUpdateNotificationImport>
```

Output Schema: Interaction Result

See definition *Interaction Result Schema*

Output Schema: Interaction Result

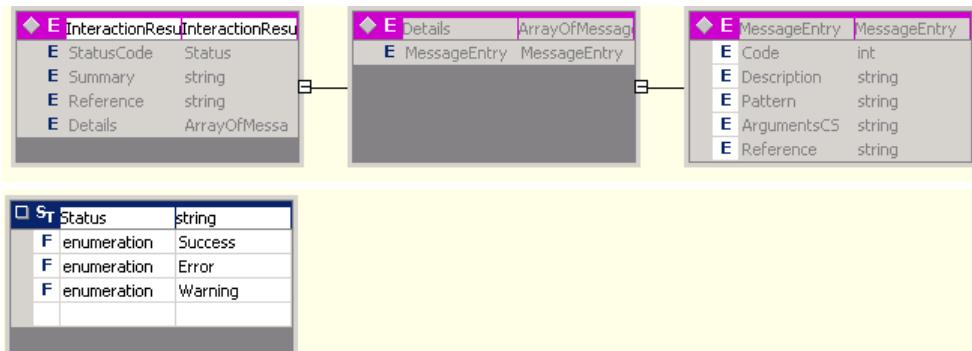
See *definition Interaction Result Schema*

InteractionResult

Purpose

Schema to give feedback regarding an import of information

Schema



<http://Sanitrace.EAI/SanitraceRepository/InteractionResult>

On success you receive an interaction result like shown underneath. Important is the **StatusCode** “Success” and the **Reference** “868538067”

```
<?xml version="1.0" ?>
<InteractionResult xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
                     xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <StatusCode>Success</StatusCode>
    <Summary>Import ImportChangeNotificationUseCase successfull: Change Notification
             Importing 2322-343453 ChangeNotification information is imported.</Summary>
    <Reference>868538067</Reference>
    <Details />
</InteractionResult>
```

In case of incorrect URLs you receive an interaction result like shown underneath. Important is the **StatusCode** “Error”, a **Summary** Message and one or more **Detail Message Entries**.

```
<?xml version="1.0"?>
<InteractionResult
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <StatusCode>Error</StatusCode>
    <Summary>Import ImportChangeNotificationUseCase erroneous: Change Notification
             Importing 2322-343453 ChangeNotification information is not imported. See logs
             for more information.</Summary>
    <Reference />
    <Details>
        <MessageEntry>
            <Code>-266</Code>
            <Description>Record not found in table Table ANIMAL for search criterium
                         Country/MarkingNumber with value BE/00004461
            </Description>
            <Pattern> Record not found in table {0} for search criterium
                     {1} with value {2}</Pattern>
        </MessageEntry>
    </Details>
</InteractionResult>
```

```

<ArgumentsCSV> ANIMAL,Country/MarkingNumber ,BE/00004461</ArgumentsCSV>

<Reference />
</MessageEntry>
</Details>
</InteractionResult>
```

Or when requested with user language NL

```

<?xml version="1.0"?>
<InteractionResult
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
<StatusCode>Error</StatusCode>
<Summary>Import ImportChangeNotificationUseCase erroneous: Change Notification
          Importing 2322-343453 ChangeNotification information is not imported. See logs
          for more information.
</Summary>
<Reference />
<Details>
    <MessageEntry>
        <Code>-266</Code>
        <Description> Record niet gevonden in tabel Dier voor opzoekcriterium
                      Land/Werknummer met waarde BE/00004461
        </Description>
        <Pattern> Record not found in table {0} for search criterium
                  {1} with value {2}</Pattern>
    <ArgumentsCSV> ANIMAL,Country/MarkingNumber ,BE/00004461</ArgumentsCSV>

    <Reference />
    </MessageEntry>
</Details>
</InteractionResult>
```

Working On Behalf Of

To support 3rd party services, we added ‘work on behalf of’ functionality. The principle is quite simple. Besides passing user /security token you know pass two additional information elements:

OnBehalfRole	The application role of the entity you are working on behalf of e.g. FARM, ...
OnBehalfEntity	The entity you are working on behalf of. This typically will be a Facility or a Sanitary Unit. However, the functionality might be extended to parties to

We have currently only updated the schema’s for movements and birth/imports. And we will not ‘re-display’ all XSD schema’s – but the picture underneath shows how the ‘OnBehalf’ information is added in the root – element of an XML

A User	string
A SecurityToken	string
A OnBehalfRole	string
A OnBehalfEntity	string
A UserLanguage	string

If you are working ‘on behalf of’ always add the tokens. They might be non-functional now but will become functional soon...

Localized Error Messages

As seen in the above structure there is also an attribute called UserLanguage. This attribute has to be set with every message call.

The allowed languages are EN (English), NL (Dutch), FR (French), DE (German)

The interaction result or exception messages are then localized in the specified language

Interfaces – Technical Usage

Web Application

The online application can be accessed via

- http://qas.sanitrace.be/web/QAS_Sanitrace_Web/Pages/Common/Default.aspx

In principle you should log in with your user name and then navigate to the Upload XML page. Select an XML, submit it and save or open the result XML...

It is a good practice to study the application online behavior before you start using the back-end services. In fact a lot of the functionality is very similar

Please consider the user manuals discussing the online application, general working, registering accounts, updating your profile, registering issues, etc. To retrieve the manuals click on the InfoCentre link in the top right corner of the application header.

Channel 1. upload / download via secured web service

The web services can be access via

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx

This site is secured you need to enter the following credentials:

User: XML4SNTRC

Password: ed5R#CK5

This provides the list of both import and export Web Methods as shown underneath.

Sanitrace_SanitraceServices

Sanitrace Services

The following operations are supported. For a formal definition, please review the [Service Description](#).

- [ExportAnimal](#)
- [ExportAnimalMovementNotificationOverview](#)
- [ExportAnimalOverview](#)
- [ExportChangeNotificationOverview](#)
- [ExportFacilityOverview](#)
- [ExportMovementNotification](#)
- [ExportMovementNotificationOverview](#)
- [ExportPartyOverview](#)
- [ExportProductionUnitOverview](#)
- [ExportSanitaryUnit](#)
- [ExportSanitaryUnitOverview](#)
- [ImportAnimalNotification](#)
- [ImportChangeNotification](#)
- [ImportInventoryNotification](#)
- [ImportMovementNotification](#)
- [ImportPopulationNotification](#)
- [ImportProductionUnitNotification](#)
- [ImportRiskNotification](#)

Modern development environments such as .Net or Java can reference the asmx file and generate WebService stubs in your development environment. After that you can code using direct access of the XML structures

Publishing web services as an asmx has some additional advantages. First it is very convenient to get insight in to the XML input and output structure and get a basis to start from. Just click on a method (e.g. Export Animal Overview)

Sanitrace_SanitraceServices

Click [here](#) for a complete list of operations.

ExportAnimalOverview

Method (Use Case)

Test

The test form is only available for requests from the local machine.

SOAP 1.1

The following is a sample SOAP 1.1 request and response. The **placeholders** shown need to be replaced by actual values.

```
POST /int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx HTTP/1.1
Host: qas.sanitrace.be
Content-Type: text/xml; charset=utf-8
Content-Length: length
SOAPAction: "http://Sanitrace.EAI/SanitraceRepository/SanitraceService/ExportAnimalOverview"

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance
    <soap:Body>
        <ExportAnimalOverview xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceService">
            <AnimalOverviewExportRequest User="string" SecurityToken="string">
                <Animal xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceService">
                    <ANTR_CDE>string</ANTR_CDE>
                    <PRUN_REF_NBR>string</PRUN_REF_NBR>
                    <FCLT_CDE>string</FCLT_CDE>
                    <SNUM_CDE>string</SNUM_CDE>
                    <UPD_DTE_FRM>dateTime</UPD_DTE_FRM>
                    <UPD_DTE_TO>dateTime</UPD_DTE_TO>
                    <TRGR_CDE>string</TRGR_CDE>
                </Animal>
            </AnimalOverviewExportRequest>
        </ExportAnimalOverview>
    </soap:Body>
</soap:Envelope>
```

Input structure
+ All attributes

```
HTTP/1.1 200 OK
Content-Type: text/xml; charset=utf-8
Content-Length: length

<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance
    <soap:Body>
        <ExportAnimalOverviewResponse xmlns="http://Sanitrace.EAI/SanitraceService">
            <AnimalOverviewExport User="string" SecurityToken="string" ResponseCode="0">
                <Animal>
                    <ANTR_CDE>string</ANTR_CDE>
                    <CDE>string</CDE>
                    <MACT_CDE>string</MACT_CDE>
                    <MRK_CDG>string</MRK_CDG>
                    <MRK_NBR>string</MRK_NBR>
                </Animal>
            </AnimalOverviewExport>
        </ExportAnimalOverviewResponse>
    </soap:Body>
</soap:Envelope>
```

Output structure
+ All attributes

Another powerful feature of Web Services is that one can retrieve the online Web Service Definition in general and all XSD schema's in particular.

i.e.

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SANITRACESERVICES.ASMX?wsdl

The schema names are automatically generated so might get changed when updating the proxy. See the table underneath for the active configuration. A Schema can be retrieved directly via

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SANITRACESERVICES.ASMX?schema=schemaXX

with XX the schema number as defined in the table underneath

schema31	AnimalExport
schema25	AnimalMovementNotificationOverviewExport
schema2	AnimalNotificationImport
schema28	AnimalOverviewExport
schema6	ChangeNotificationImport
schema34	ChangeNotificationOverviewExport
schema23	ExportAnimalMovementNotificationOverviewRequest
schema26	ExportAnimalOverviewRequest
schema29	ExportAnimalRequest
schema32	ExportChangeNotificationOverviewRequest
schema35	ExportFacilityOverviewRequest
schema38	ExportMovementNotificationOverviewRequest
schema41	ExportMovementNotificationRequest
schema44	ExportPartyOverviewRequest
schema47	ExportProductionUnitOverviewRequest
schema50	ExportSanitaryUnitOverviewRequest
schema53	ExportSanitaryUnitRequest
schema37	FacilityOverviewExport
schema9	InventoryNotificationImport
schema43	MovementNotificationExport
schema12	MovementNotificationImport
schema40	MovementNotificationOverviewExport
schema46	PartyOverviewExport
schema15	PopulationNotificationImport
schema18	ProductionUnitNotificationImport
schema49	ProductionUnitOverviewExport
schema21	RiskNotificationImport

The zip file underneath gives a .Net example on how to make calls to the Web Service

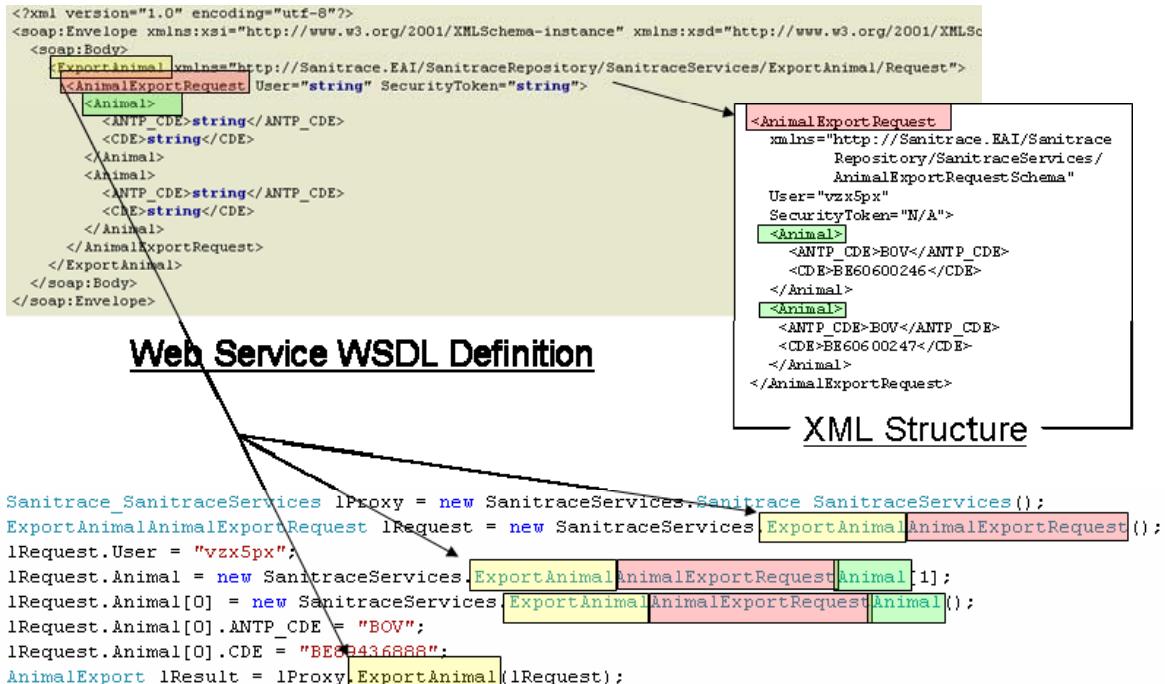


Package

Since Microsoft Patch 928365 – the behavior of the XSD tool is definitively prohibiting the use of anonymous types -- `System.Xml.Serialization.XmlTypeAttribute(AnonymousType=true)`

The effect is the following stub generation strategy:

WSDL -> SOAP Envelope



Web Service Proxy - .Net calls

As such you actually get “long names” in your code which can be a bit confusing. However, as you get the ‘method name’ – ‘structure name’- ‘structure table’ insight it is rather straightforward again...

Channels 2 to 4

The examples given in this document actually where slightly ‘altered’ for better readability. i.e. the xmlns-directive should be without spaces / linebreaks. The XML as such should look like...

EXPA – 2 – Retrieve all Slaughterhouses – correct XML

```
<?xml version="1.0" encoding="utf-8"?>
<PartyOverviewExportRequest
xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/PartyOverviewExportRequestSchema"
User="TESTXML" SecurityToken="N/A" ResultIndex="0">
<Party>
<PATP_CDE>SLGHS</PATP_CDE>
</Party>
```

The zip file underneath contains some example XML files these can be used by all subsequent scenario’s as these work with pure XML files rather than Web Services. Obviously the XML’s are formed according to the schema’s defined above.

TODO – as soon as the code = operational – add a zip file of the above XML examples but with actual examples

Channel 2 - upload / download via secured streaming page

SlaughterFile and SlaughterInfo XML files to be imported can be streamed to the following secured page

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/GenericXMLHandler.ashx

To access the pages you need to enter the following credentials:

User: XML4SNTRC

Password: ed5R#CK5

The code underneath gives an example on how to use this secured interface



Package

Channel 3 - upload / download via unsecured streaming page

XML import files can be streamed to the following page

http://qas.sanitrace.be/web/QAS_Sanitrace_Web/Interfacing/GenericXMLHandler.ashx

The code in scenario 2 can be used. Just replace the URL as mentioned above and delete user name and password

Channel 4 - upload / download via web page

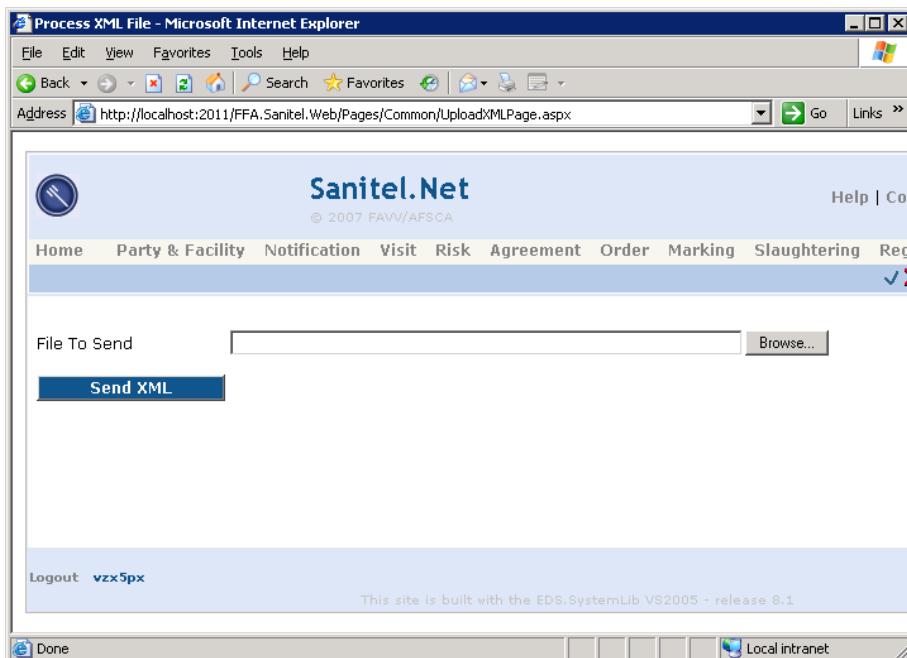
After selecting the menu option

Upload XML

Or by entering the URL

http://qas.sanittrace.be/web/QAS_Sanittrace_Web/Pages/Common/UploadXMLPage.aspx

You get to the manual upload page which is rather straight forward.



On this page you can test whether your xml is correctly filled in. In case your streaming does not work or give satisfactory results please test it first using the manual scenario.

Be sure you get on this page and NOT on the XML upload page for the slaughter module...

Next Steps

Focus now will be on three domains:

1. Tuning the web services
2. Finalizing the remaining interfaces (or reports?)
 - a. Water / Manure
 - b. Slaughtering statistics
 - c. Bovine population statistics
3. Moving to production

URL Summary

For testing in the ongoing development environment

- http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/GenericXMLHandler.ashx
- http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/SanitraceServices.asmx
- http://qas.sanitrace.be/web/QAS_Sanitrace_Web/Pages/Common/UploadXMLPage.aspx

The Luxembourg URLs

All URLs specified contain the word QAS at least once in the URL. For Luxembourg production all of the above will remain the same, except that the characters qas or QAS need to be replaced by prd or PRD

In addition all interface URLs and definitions will be standardized on the “Sanilux” – naming and the .be suffix needs to be changed to lu

i.e.

http://qas.sanitrace.be/int/QAS_Sanitrace_ExtInterfacingSvcs/GenericXMLHandler.ashx

will become

http://qas.sanitrace.lu/int/QAS_Sanilux_ExtInterfacingSvcs/GenericXMLHandler.ashx*
http://qas.sanitrace.lu/int/QAS_Sanilux_ExtInterfacingSvcs/GenericXMLHandler.ashx

or a schema definition like

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/RiskNotificationImportSchema>

will look like

<http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/RiskNotificationImportSchema>*
<http://Sanilux.EAI/SaniluxRepository/SaniluxServices/RiskNotificationImportSchema>

The Sanilux naming will also be visible in the schema name

i.e. [xmlns="http://Sanilux.EAI/SaniluxRepository/...](http://Sanilux.EAI/SaniluxRepository/)

* testing period – Lux not yet in production so shared code base with Sanitrace!

Moving to Production

All URLs specified contain the word QAS at least once in the URL. For production all of the above will remain the same, except that the characters qas or QAS need to be replaced by prd or PRD

i.e.

http://prd.sanitrace.be/int/PRD_Sanitrace_ExtInterfacingSvcs/GenericXMLHandler.ashx *

or for Luxembourg

http://prd.sanitrace.lu/int/PRD_Sanilux_ExtInterfacingSvcs/GenericXMLHandler.ashx

* For Belgium, a very likely scenario will be a migration into the Sanitel application which is currently in production in the slaughterhouses and for the bluetongue registration. In that case the URLs become

i.e.

http://prd.sanitrace.be/int/PRD_Sanitel_ExtInterfacingSvcs/GenericXMLHandler.ashx

In that case the Sanitel naming will also be visible in the schema name

i.e. [xmlns="http://Sanitel.EAI/SanitelRepository/...](#)

Web Service Security

The Web Services are until now only secured using the XML web services user-account and password. And this account is shared by all XML users. Furthermore, we do not intend to introduce https for the web services, both for performance reasons and stability reasons. Especially in web services high-frequent https connectivity can cause problems. Additionally we do not expect people to strongly authenticate them using X509 certificates as this is probably overkill for this application...

All XML users have to specify their User-account in the message. This account is used for treating the XML this sharing of the same connection is on itself not a problem.

This user account is linked to the Party and Facility for whom the XML requests are being done (e.g. an arrival, a change notification,...) and security and business rules are validated against this user account (Read: The XML is processed against the rights of this user). In addition, this user account is also used in the audit trail.

Now, the attentive reader has detected two possible security issues. What if a hacker sniffs the message and resubmits it possibly with other information? What if you specify a user name you should not use? Let's ignore the first one and focus on the second one...

Indeed, theoretically people having access to XML messaging and knowing accounts of other users could submit an XML as if they were that user...

That's where the security token comes into play...

In practice you still can leave the security token blank as this is a trusted user community. In addition you need to know the other user name and last but not least we do quiet some tracing on IP-address level to detect abuse or to do some analysis in case abuse is detected. This XML tracking also includes the content of the XML request so we actually can verify if XML users do not 'abuse' there XML capabilities by querying information they should not access...

So no additional Web Service Security is for the time being still an option. Nevertheless we do invite you to implement one of the method-security elements discussed underneath. And as soon as you are on level 3 or 4 you also make the life of the hacker a lot more difficult...

We now discuss how in the online application the XML security can be configured. This is done in tab 6 in the user profile. In this tab we manage some advanced security settings managing connectivity with the application both in the online as well as for the XML. The settings defined in this tab will define how you need to send your XML messages.

p.1 p.2 p.3 p.4 p.5 p.6

Must Use SSL Logon
 Uses XML
 XML Security Active

XML Security Token Type **TokenKeyHashed**

XML Token / Encryptor  Ge5Y0+n8cSTYNZUGKI  

XML Security Key **324**

Update Profile

Must Use SSL Logon Checkbox

This flag indicates whether this User should logon via the Secure Server. If the user logs on via the normal login he is blocked for 2 minutes. We deliberately do NOT lock the user out because;

- The password has been sent clear text over the line – so the ‘harm’ has been done anyway
- the https channel might be closed down as protection against a standard https/virus attack

Uses XML Checkbox

The Uses XML checkbox is a flag that indicates that a certain LOGIN-account can also use XML to load / export information.

XML Security Token Type

This setting defines which Security strategy is followed in the XML messages. i.e. it defines what is being passed in the security token. The options are:

1. Security Token
2. Hashed Security Token
3. Date-based Security Token
4. Hashed Date-based Security Token
5. Key-based Security Token
6. Hashed Key-based Security Token
7. AES Encrypted Date-Time Value

The table underneath gives an overview of what the XML Security Token Settings are and additionally demonstrate how the security token can be filled in. Finally, column 5 gives an example of the real security token as filled in in the XML .

Option	Description	Security Token example	Key example	XML Security Token
1. Security Token	The security token plays the role of a kind of password	SomeSecret	-	SomeSecret
2. Hashed Security Token	The above security token is hashed with the SHA1 algorithm	SomeSecret	-	o3En/+Fm638yxFW4AHISkb7Taz4=
3. Date-Based Security Token	The security token is combined with the key	Some{0}Secret SomeSecret		Some20080929Secret
4. Hashed Date-Based Security Token	The security token is combined with the key	Some{0}Secret SomeSecret		hNvdH6haYJ4WAdMYJx9vF/ewpaQ=
5. Key-based Security Token	The security token is combined with the key	Some{0}Secret SomeSecret	210*	Some210Secret SomeSecret210
6. Hashed Key-based Security Token	The combined key / security token is hashed with the SHA1 algorithm	Some{0}Secret SomeSecret	210*	/bvVn9ub3lj1yOKKedP2I024ftc= v+KoBSaBWAqMCDVzXGnJi3ejDQ=
7. AES Encrypted Date-Time Value	A <USER XML date time now> value encrypted using AES	SomeSecretAESSaltValue	-	TESTXML 2008-11-12T12:00:00 = encrypted Sn1Qn6B6bUakN2kjztRMjQU7jfWxOr0Jg WTpX2lrjbwiR/iO15rkSX4Gzfy0Nufjyb9q MIIISVvSU34fRRoPhg==

- (1) Security Token is the simplest form and could be easily rolled out.
- (2) Hides this secret from the user
- (3) And (4) are still quite simple and make the connection already quite secure. This should be the targeted average security level...
- (5),(6) and (7) are advanced security means making the connection more or less as secure as if you would have installed a special certificate on the PC of this user.

The AES example is based on an EAS encryptor initialized based on the following settings

```
passPhrase="PassPhraseToGenerateAnAESPassword"  
sal tVal ue="SomeSecretSal tVal ue"  
hashAl gorti thm="SHA1"  
ini tVector="gucpLaGR"  
keySi ze="Si ze128
```

The Salt Value = the one you add in the security token!

(*) Remark that with every XML – message the key is incremented.

Is it an option to leave the Security Token Type blank?

Actually it is. At that moment there is no extra web service security.

Frequently Asked Questions

1. Q: Can we still use the old Sanitrace/Beltrace numbers?
A: Yes you can, however there is still a small change. The new Beltrace/Sanitrace makes the difference between Liable Party and Facility more explicitly. E.g. Transporters, Submittors and Owners refer to Parties. Farms where the animals come from refer to facilities. However sometimes a farmer is also the submitter or transporter. So you should know his party number and his facility number. To minimize the effort needed, the application accepts the facility number as a party number too. However in the export of data the correct numbers will be used.
2. Q: What about foreign transporters, or private persons? Are they in the system?
A: The best way is to first have a look in the system (search by name, realm register number,...), and if they are not there, create a new party using “Simple Party Maintenance” – the party than generated will have an S000XXXX number and this number can be permanently used for referring to this party.
3. Q: A few of these persons already have a 9-digit zero prefixed FAVV BOOD / KBO number. Can I use that number?
A: Unfortunately it is not possible to use this number (yet) as in the Sanitrace application there still can be multiple parties linked to the same FAVV BOOD / KBO number. However, you can search on this 9-digit zero prefixed number too for finding the party, and in case it is not there you can fetch its BOOD / KBO information when creating the party (i.e. create simple party maintenance > tab to field external reference number -> enter the 9-digit zero prefixed FAVV BOOD / KBO number -> Hit the check button -> Name + address info is fetched...)
4. Q: And foreign cattle farms – should we create those too as temporary parties?
A: No, in the XML –structure there is the document tag where you can specify the certificates of these foreign cattle farms. Both local or international (TRASYS) certificates can be used.
5. Q: What is the difference between a Party and a Facility?
A: The Party is the Juridical entity and is in the process of being rationalized and aligned with the Central KBO registration, the Facility is the more down-to-earth number of a certain ‘facility’ on a certain ‘location’. One party can be responsible for multiple facilities but a facility only has one liable party...
6. Q: Can we register now multiple transporters via the XML*
A: Yes you can, just an extra Party Tage with SLPT_CDE-code = ‘TRS’
7. Q: Can we now register dead animals via the XML*
A: Yes you can See example 2

8. Q: Can we put local animals and foreign animals in one SlaughterFile*
A: No, you can not. The origin code (ORIG_CDE) has to be filled in on SlaughterFile level and indicates if the animals come from abroad or local. So you need to split the declaration
9. Q: I get PATY_CDE mandatory FCLT_CDE mandatory messages. What do they mean? *
A: I agree the error messages are not always optimal – but it typically refers to not specified or incorrectly specified parties (Submitter, Owner, Transporter) or facilities. Please check whether your specified codes are filled in and are in the correct format (BE12345678)
10. Q: What's the difference between SAV (Saving) and SUBM (Submitting) a declaration? *
A: As soon as you SUBMit a declaration, it is the signal that the inspections can take place and it cannot be altered anymore. When SAving a declaration you can do an update later (e.g. if you want to change weight categories or so...) However a manual or XML – SUBM-it is needed to progress the workflow.
11. Q: I just use trial and error and sometimes the messages are somewhat hard to understand. Is there a possible overview of all that can go wrong? What other messages are there?
A: I agree the error messages are not always optimal, and unfortunately I do not have an exhaustive list of all possible errors you can make when doing trial and error XML filling, but it is a point where we try to improve continuously. The most visible error checking is on the possible code-value schema's and mandatory fields, but excessive field lengths or duplicate keys can result in less user friendly messages... On the other hand this is not an online application, but a data-interchange protocol with 'trusted party' applications – so we do can assume some basic validation at the input side ;-)
12. Q: Is there a manual of the online application? Where can I get them?
A: There are three manuals: The EAI Manual (this one – in English only), a getting started manual with general application navigation tips (In Dutch and French) and a functional manual for the Slaughtering functionality (Also in Dutch and French). In total these manuals add up to over 10 MB so they cannot be easily send around. The manuals are distributed during the training and FAVV-AFSCA has made them available via the web site too. You can find all manuals by clicking the info-centre link on the top-right side of the application screens
13. Q: What integration scenario is preferred?
A: As described above both scenario's 1and 2 (Web Service and Secured Streaming) are the preferred ones. The Web Service has one additional advantage and that is that a local 'object structure' can be created rather than working with the XML itself. The Streaming has the advantage that you can use scenario 4 to test your stuff first...

14. Q: What username do we use in the XML? How do I get a logon? What if I am a systems integrator and not e.g. a Slaughterhouse?

A: You can use any logon of this Slaughterhouse as long as they exist in the application? Contact the general helpdesk for a user id. If you're a system integrator ask a Logon ID in the QAS-environment and have it configured for one of the slaughterhouses you work for. Please inform the slaughterhouse about this...

15. Q: Can I put everything in uppercase?

A: No, you cannot XML is case-sensitive so your structure tag-names e.g. for <SanitaryUnit> need to be exactly <SanitaryUnit> and not <Sanitaryunit>, <sanitaryunit> or <SANITARYUNIT>. The same applies to a namespace definition like

xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/PartyOverviewExportRequestSchema"

16. Q: My test XML gives an error and I copied it from your example

A: for readability we sometimes entered extra spaces in the XML – especially in the namespace definition, copying the example blindly will not work. E.g. the example shows:

```
xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/PartyOverview  
ExportRequestSchema"
```

But it actually is one string

```
xmlns="http://Sanitrace.EAI/SanitraceRepository/SanitraceServices/PartyOverviewExportRequestSchema"
```

17. Q: My XML still gives an error

A: As long as you get Error in XML your XML is not formatted correctly – reasons can include

- Incorrectly closed tags
- Special characters like % in strings
- Non-date representations
- ...

Most of the time the parser also gives a location e.g. line 12 char 44 – go to the corresponding line / column and check the error. It should be close in the neighbourhood there ;-)

18. Q: How can I specify an empty tag.

A: We support the standard W3C empty tags techniques.

For “strings” this includes:

No tag	<Animal> <ANTP_CDE>BOV</ANTP_CDE> <SNUN_CDE>BE10014385-0101</SNUN_CDE>
Closed tag	<Animal> <FCLT_CDE/> <ANTP_CDE>BOV</ANTP_CDE> <SNUN_CDE>BE10014385-0101</SNUN_CDE>
Open/Close tag -> STRINGS ONLY !!!	<Animal> <FCLT_CDE></FCLT_CDE> <ANTP_CDE>BOV</ANTP_CDE> <SNUN_CDE>BE10014385-0101</SNUN_CDE>

For “datetimes” this includes:

No tag	<pre><Animal> <ANTP_CDE>BOV</ANTP_CDE> <SNUN_CDE>BE10014385-0101</SNUN_CDE> </Animal></pre>
Null values	<pre><Animal> <ANTP_CDE>BOV</ANTP_CDE> <SNUN_CDE>BE10014385-0101</SNUN_CDE> <UPD_DTE_FRM>0001-01-01T00:00:00</UPD_DTE_FRM> <UPD_DTE_TO>0001-01-01T00:00:00</UPD_DTE_TO> </Animal> </AnimalOverviewExportRequest></pre>

For other XML types there is only the No Tag option

19. Q: How can I see the field lengths

A: Technically speaking, field length specifications are not standard part of XML. There have been proposed some standards but the general conclusion of any such debate is always that XML should not be specifying lengths.

For informational purpose these are our standards

Strings are by default 50 characters UNLESS:

- They represent “User Codes” -> Length 5
- They represent “Descriptions” -> Length 255
- They represent “Comments” -> Length 800
- They are explicitly constrained to another length for technical reasons. An example of this is street in the current interfaces which are constrained to 40 for printing reasons
- Examples:
 - o *NAM VARCHAR2(50 CHAR)*
 - o *AL1 VARCHAR2(50 CHAR)*
 - o *AL2 VARCHAR2(50 CHAR)*
 - o *STR VARCHAR2(40 CHAR)*
 - o *ZIP VARCHAR2(50 CHAR)*
 - o *CTY VARCHAR2(50 CHAR)*
 - o *MCP VARCHAR2(50 CHAR)*
 - o *EMA VARCHAR2(50 CHAR)*
 - o *TPH VARCHAR2(50 CHAR)*
 - o *TPH_ALT VARCHAR2(50 CHAR)*
 - o *GSM VARCHAR2(50 CHAR)*
 - o *FAX VARCHAR2(50 CHAR)*
 - o *GNDR_CDE VARCHAR2(5 CHAR)*

(*) = Slaughtering Module only

20. Q: How do we have to specify animal numbers when using them in the XML and how are these numbers formatted when exported?

A: This is a difficult problem so we have tried to come to the best and most informative information for anyone. There are different business rules for the validation of Bovine earmark numbers in different countries of the European Union. Some countries even have 2 checkdigits...

For example:

Belgium : Country Code + Check Digit + 12345678 BE 9 12345678

Germany : Country Code + 10 chars + check digit DE 1234567890 1

UK : 6 numbers + Check Digit + 5 Numbers UK 123456 7 89012

France: 10 Characters – no check digits

AT 563291834	BE40137971-0101	NL 49036299 6	BE10082933-0101
AT 720505211	BE40137971-0101	UK 340933 7 00835	BE10082933-0101
BE 7 92242112	BE10082933-0101	UK 343334 6 01345	BE10082933-0101
BE 2 92243756	BE10082933-0101	SK 800414521	BE10119225-0101
DE 0534520976 6	BE10082933-0101	SK 800414627	BE10119225-0101
DE 0768786240 1	BE10082933-0101	SK 800510542	BE10119225-0101
DE 0768786241 8	BE10082933-0101	SK 800511834	BE10119225-0101
DE 0768847064 3	BE10082933-0101	DE 1082378273 0	BE10173416-0101
DE 0768954849 5	BE10082933-0101	LU 7 98640685	BE10173416-0101
FR 0200920637	BE10082933-0101	PL 00513852014 7	BE10173416-0101
HU 302142046 0	BE50087431-0101	IE 1814236 5 0661	BE10111021-0101
HU 302142055 4	BE50087431-0101	CZ 102104591	BE30041613-0101
IT 023000369118	BE10173416-0101	CZ 102104594	BE30041613-0101
IT 023000369120	BE10173416-0101	ES 8 0301551380	BE30041613-0101
NL 34035029 0	BE10082933-0101	ES 4 0302762403	BE30041613-0101
NL 34507600 5	BE10082933-0101	FR 5511800004	BE30041613-0101
NL 42217978 4	BE10082933-0101	FR 5613882371	BE30041613-0101

Every country has its own rules, however in every country old animal numbers exist that do not conform with the last version of the rules. In addition the migrated data contains quite some incorrectly specified foreign numbers or incorrect / missing checkdigits.

For example:

In Belgium, the old numbering system has numbers like BE 123456, so only containing 6 numeric positions (instead of the 8 numbers currently used)

DK327701486	BE10173701-0101
DK329962453	BE10173701-0101
LU724645	BE30041613-0101
LU823435	BE30041613-0101
BE9018347	BE10111021-0101
BEA5173747	BE10111021-0101
BEA5187298	BE10111021-0101
BEN0042909	BE10111021-0101
IEBMQR0019W	BE30041613-0101
IECFCH0009X	BE30041613-0101
IEDCMV0020K	BE30041613-0101
IEFFZP0043R	BE30041613-0101
SK90266814	BE30041613-0101
SK93232165	BE30041613-0101

So as output we return the animal numbers in the most informative way. So INCLUDING information about country and check digit and all separated by a blank

CDE LT 03119426
CDE BE 8 65794680

Companies not interested in the check-digit can ignore the spaces

For input we allow the formats with spaces, without spaces and for bovines from the BENELUX we even accept them without checkdigit

21. Q: Are we forced to use Security Tokens?

A: So far we only implemented base level security in order not to make it too complex for the user community. This is possible because the external risk that the information is hacked / abused for malafide manipulation or financial gain is rather limited. The Internal risk is low too as this is a trusted community rather than an end-user community. Although we do have quite some loggings to assure the risk stays low ;-). Finally, a lot of the important processes are complemented by physical elements (passports) and veterinary visits / inspections in the field normally will result in an early detection of potential violations.

So to answer the question. Currently there is no enforcement of a certain type of Security Token. However we really invite you to consider using one. If you think you are ready for it or want to discuss – please contact us...

Support

Online VIA the online bug / feature tracker (IssueMaintenancePage.aspx)

General Helpdesk: Dirk.Vanschoor@favv.be

Technical Issues: Kurt.Wayenberg@eds.com

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