

Collateral Management System®

Functional Specifications

Standard API

Version #: *Version 11.8*

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Introduction

CMS's Web API allows for third party systems, such as a Loan Origination System (LOS), to order services from CMS, allow CMS to send orders to the LOS, and monitor status updates.

The API is XML based, and it contains two namespaces:

- Integration.xsd defines the communication context which is independent to CMS.
- CMS.xsd defines the context which is only relevant to CMS.

API Configuration

The API credentials are managed from within the Administration tab in CMS. The user can set unique login and password credentials as well as designate the proper URLs for CMS to post data to the LOS, and choose which associated file types to send back in the final status update.



Authentication

This area provides information as well as the ability to maintain settings for the LOS/Collateral Headquarters interface. Authentication allows you to establish or update your interface credentials as well as enable or disable those settings.

User Id	Enabled
testapi	<input checked="" type="checkbox"/>

Interface URLs

Do you want a post back on all update orders in the system regardless of entry method, or do you want only orders created by the API? If All Orders is selected, non-API orders will post to the default URLs specified below. *

Interface Source	URL	User ID	Password	Post Back Type	Default
SourceApp	https://uat.fncinc.com/XMLPosted/receivepost.ashx?id=chq			Status Update	<input checked="" type="checkbox"/>
SourceApp	https://uat.fncinc.com/XMLPosted/receivepost.ashx?id=chq			Send Comment	<input checked="" type="checkbox"/>
SourceApp	https://uat.fncinc.com/XMLPosted/receivepost.ashx?id=chq			Datafeedback	<input checked="" type="checkbox"/>
SourceApp	https://uat.fncinc.com/XMLPosted/receivepost.ashx?id=chq			Send Invoice	<input checked="" type="checkbox"/>
SourceApp	https://uat.fncinc.com/XMLPosted/receivepost.ashx?id=chq			OrderAcceptance	<input checked="" type="checkbox"/>
SourceApp	https://uat.fncinc.com/XMLPosted/receivepost.ashx?id=chq			Send Order	<input checked="" type="checkbox"/>

Save Changes

API Postback File Types

Please select the file types to be sent to your system in the final update post. These files will be sent in addition to Appraisal Report, BPO Report, Inspection Report, Fannie SSR, Freddie SSR, and UCDP Ready files.

<input checked="" type="checkbox"/> Appraisal for Review	<input checked="" type="checkbox"/> Deed	<input checked="" type="checkbox"/> Plans and Specs	<input checked="" type="checkbox"/> Questionnaires	<input checked="" type="checkbox"/> Review Scope
<input checked="" type="checkbox"/> Appraisal Invoice	<input checked="" type="checkbox"/> Invoice	<input checked="" type="checkbox"/> Previous Appraisal	<input checked="" type="checkbox"/> Receipt	<input checked="" type="checkbox"/> Sequestered - Resubmission
<input checked="" type="checkbox"/> AVM	<input checked="" type="checkbox"/> Legal	<input checked="" type="checkbox"/> Property Scan	<input checked="" type="checkbox"/> Reconciliation	<input checked="" type="checkbox"/> Surveys
<input checked="" type="checkbox"/> Compliance Letter	<input checked="" type="checkbox"/> Market Report	<input checked="" type="checkbox"/> Purchase Agreement	<input checked="" type="checkbox"/> Red Bell Appraisal	<input checked="" type="checkbox"/> Valuation Independence Letter
<input checked="" type="checkbox"/> Customer Invoice	<input checked="" type="checkbox"/> Order Sheet	<input checked="" type="checkbox"/> QC Vigilance Report	<input checked="" type="checkbox"/> Review	<input checked="" type="checkbox"/> Valuesight
<input checked="" type="checkbox"/> Customer Invoice (System)	<input checked="" type="checkbox"/> Other Documents			

Save

Firewall Configuration

The inbound XML posts do not require a firewall rule. The outbound posts from FNC CMS require a firewall rule to be in place. FNC requires:

- Public URL to post the API XML.
- The URL needs to be secure, *https*, as FNC security department requires XML post via SSL. This applies to both our UAT and Production environment.
- The URL security cert must be a part of the Microsoft Trusted Root Certification Authorities certificate store. Self-signed certs are not allowed.

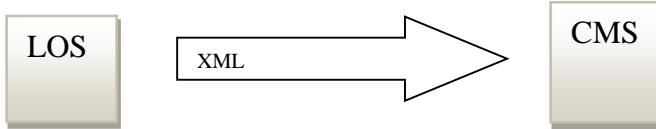
Current **production** FNC IP Addresses:

- 216.177.92.139
- 216.177.92.144
- 216.177.92.145
- 216.177.92.146
- 216.177.92.147
- 216.177.92.163
- 216.177.92.167
- 216.177.92.168

Current **UAT** FNC IP Addresses:

- 76.8.242.57
- 76.8.242.58

Create Order Touchpoint



The order process starts from LOS post order XML to CMS

:: Create Order from LOS

The Ordering Process originates with the creation of an order in an upstream ordering system. The order is transferred from the ordering system then initiates a request to “Create Order” in Collateral Management System® (CMS).

Actors

CMS This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.

Client System System responsible for data management and originating orders

Preconditions – Credentials entered into CMS interface setup

Post Conditions – Order exists in Client System and CMS.

► Main Scenario

1. Order is created in Client System.
2. Client System sends Order Request XML to CMS.
3. CMS receives request and validates XML.
4. CMS stores and processes order.
5. CMS sends Response with successful completion of the XML request and returns a Document ID to Client System.
6. Client System receives and validates XML.
7. Client System sends response to communicate successful receipt of XML.
8. Client System updates order in its system with Document ID.
9. Client System records successful completion of event.

► Alternate Scenarios

1. Can't connect to CMS – System Error
2. CMS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. CMS sends a failure acknowledgement – an application error occurred.
4. CMS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

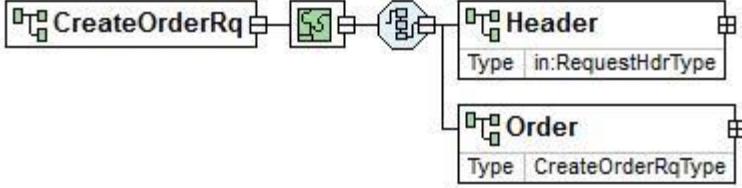
XML Post URL

UAT URL: <https://collateralhq.fncinc.com/interface/losrequest.ashx>

Production URL: <https://www.collateralhq.com/interface/losrequest.ashx>

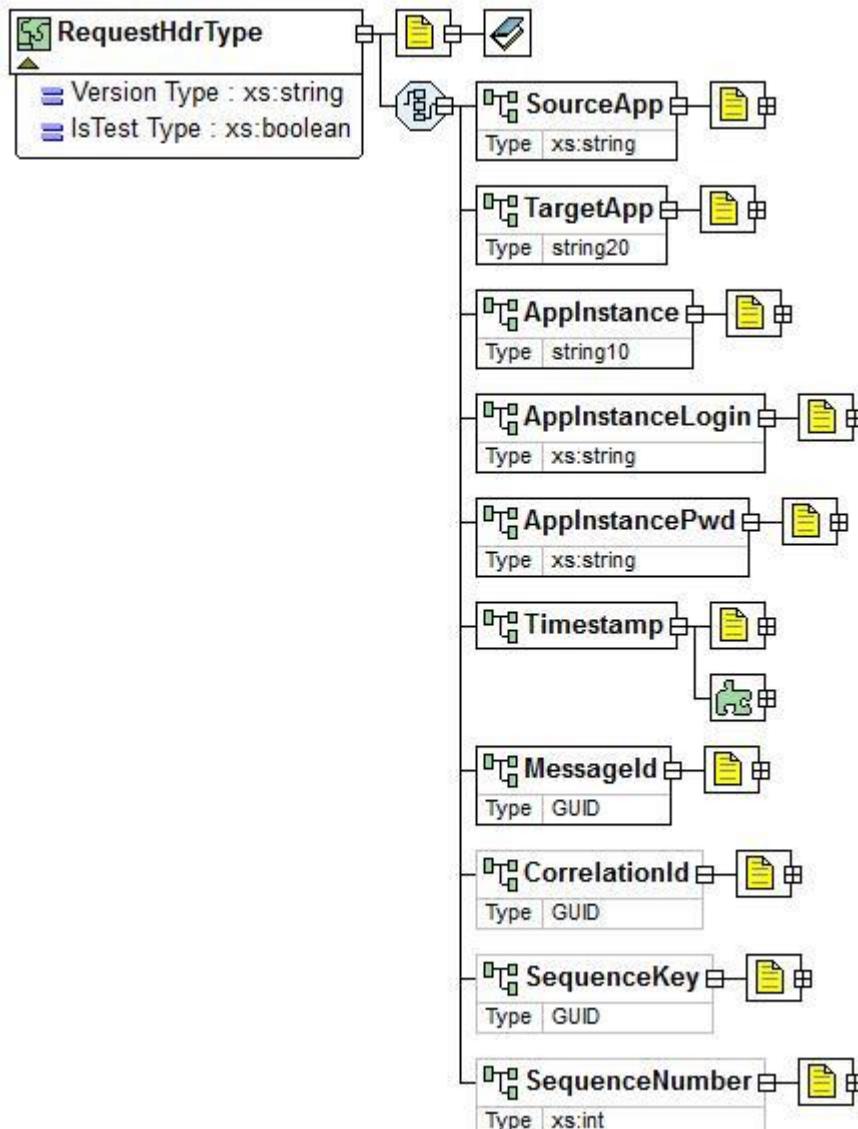
XML Structure Overview

Element **CreateOrderRq**

Namespace	http://fncinc.com/CHQ
Diagram	 <pre> classDiagram class CreateOrderRq class Header { <<in:RequestHdrType>> } class Order { <<CreateOrderRqType>> } CreateOrderRq --> Header CreateOrderRq --> Order </pre>
Instance	<pre> <CreateOrderRq> <Header IsTest="false" Version="1.0">{1,1}</Header> <Order>{1,1}</Order> </CreateOrderRq> </pre>

Header Node

Element **CreateOrderRq/Header**

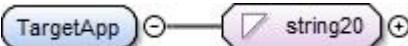
Namespace	http://fncinc.com/CHQ
Annotations	Standard request header.
Diagram	 <pre> classDiagram class RequestHdrType { <<Header>> Version Type : xs:string IsTest Type : xs:boolean } class SourceApp { <<xs:string>> } class TargetApp { <<string20>> } class ApplInstance { <<string10>> } class ApplInstanceLogin { <<xs:string>> } class ApplInstancePwd { <<xs:string>> } class Timestamp { <<xs:string>> } class MessageId { <<GUID>> } class CorrelationId { <<GUID>> } class SequenceKey { <<GUID>> } class SequenceNumber { <<xs:int>> } RequestHdrType --> SourceApp RequestHdrType --> TargetApp RequestHdrType --> ApplInstance RequestHdrType --> ApplInstanceLogin RequestHdrType --> ApplInstancePwd RequestHdrType --> Timestamp RequestHdrType --> MessageId RequestHdrType --> CorrelationId RequestHdrType --> SequenceKey RequestHdrType --> SequenceNumber </pre>
Type	RequestHdrType
Instance	<pre> <Header IsTest="false" Version="1.0"> <SourceApp>{1,1}</SourceApp> <TargetApp>{1,1}</TargetApp> <ApplInstance>{1,1}</ApplInstance> <ApplInstanceLogin>{1,1}</ApplInstanceLogin> <ApplInstancePwd>{1,1}</ApplInstancePwd> <Timestamp>{1,1}</Timestamp> <MessageId>{1,1}</MessageId> </pre>

	<pre><CorrelationId>{0,1}</CorrelationId> <SequenceKey>{0,1}</SequenceKey> <SequenceNumber>{0,1}</SequenceNumber> </Header></pre>																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>IsTest</td><td>xs:boolean</td><td></td><td>false</td><td>optional</td><td>Not currently used; For development team to utilize in a QA-like environment.</td></tr> <tr> <td>Version</td><td>xs:string</td><td>1.0</td><td></td><td>required</td><td>Based on schema</td></tr> </tbody> </table>						QName	Type	Fixed	Default	Use	Annotation	IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.	Version	xs:string	1.0		required	Based on schema
QName	Type	Fixed	Default	Use	Annotation																			
IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.																			
Version	xs:string	1.0		required	Based on schema																			

Element Header/SourceApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The name of the system sending message. This value is used to determine the postback URL for the order. If this value changes and the API has not been updated with the correct value, the posts will error out.
Diagram	
Type	xs:string
Properties	content: simple

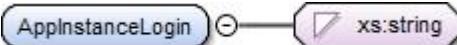
Element Header/TargetApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The name of the system receiving the message
Diagram	
Type	string20
Properties	content: simple
Facets	maxLength 20

Element Header/AppInstance

Namespace	http://fncinc.com/Integration.xsd
Annotations	An identifier obtained from FNC
Diagram	
Type	string10
Properties	content: simple
Facets	maxLength 10

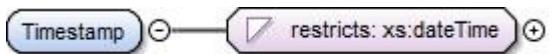
Element Header/AppInstanceLogin

Namespace	http://fncinc.com/Integration.xsd
Annotations	User name for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element Header/AppInstancePwd

Namespace	http://fncinc.com/Integration.xsd
Annotations	Password for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element Header/Timestamp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The timestamp from sending system Formatting: ISO8601; sql type 126; yyyy-mm-ddThh:mi:ss.mmm (no spaces)
Diagram	
Type	xs:dateTime
Properties	content: simple

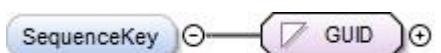
Element Header/Messageld

Namespace	http://fncinc.com/Integration.xsd
Annotations	A unique identifier for the XML. Each unique message must have a unique Messageld.
Diagram	
Type	GUID
Properties	content: simple
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element Header/CorrelationId

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element Header/SequenceKey

Namespace	http://fncinc.com/Integration.xsd
Annotations	Unique identifier for the Sequence Number.
Diagram	
Type	GUID
Properties	content: simple

	minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element Header/SequenceNumber

Namespace	http://fncinc.com/Integration.xsd
Annotations	A value used to determine the order of the update. This is primarily used in the Status Update touchpoint.
Diagram	
Type	xs:int
Properties	content: simple minOccurs: 0

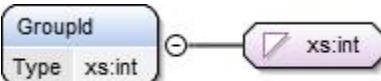
Order Node
Element CreateOrderRq/Order

Namespace http://fncinc.com/CHQ

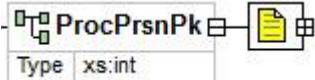
Diagram


Type	CreateOrderRqType
Instance	<pre> <Order> <GroupId>{0,1}</GroupId> <ProcPrsnPk>{0,1}</ProcPrsnPk> <ProcComments>{0,1}</ProcComments> <OrderInfo>{1,1}</OrderInfo> <PropertyAddress>{1,1}</PropertyAddress> <PropertyTypeld>{1,1}</PropertyTypeld> <LoanPurposeld>{1,1}</LoanPurposeld> <HpmlOrder>{0,1}</HpmlOrder> <OccupancyTypeld>{1,1}</OccupancyTypeld> <OwnerEstimate>{0,1}</OwnerEstimate> <SalesPrice>{0,1}</SalesPrice> <OriginalPurchasePrice>{0,1}</OriginalPurchasePrice> <LoanAmount>{0,1}</LoanAmount> <OutstandingLien>{0,1}</OutstandingLien> <CustomerPrice>{0,1}</CustomerPrice> <ProviderFee>{0,1}</ProviderFee> <ServiceId>{1,1}</ServiceId> <ServiceProviderID>{0,1}</ServiceProviderID> <BorrowerContact>{0,1}</BorrowerContact> <AlternateContact>{0,1}</AlternateContact> <MCRequired>{0,1}</MCRequired> <IsBorrowerCC>{0,1}</IsBorrowerCC> <PaymentParty>{0,1}</PaymentParty> <ParentDocID>{0,1}</ParentDocID> <ByPassDupChk>{0,1}</ByPassDupChk> <UsePreviousServiceProvider>{0,1}</UsePreviousServiceProvider> <UsePreviousReviewer>{0,1}</UsePreviousReviewer> <UsePreviousOrderAttributes>{0,1}</UsePreviousOrderAttributes> <CustomerID>{0,1}</CustomerID> <BatchName>{0,1}</BatchName> </Order></pre>

Element Order/GroupId

Namespace	http://fncinc.com/CHQ						
Annotations	A Unique Identifier (PK) for the Group (within the CHQ Client's organization) that is associated with or responsible for this order. The full list of PKs for all client groups will be provided to the client by FNC. Remove this tag if your instance of CMS.net is autoassigning processors.						
Diagram							
Type	xs:int						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						

Element Order/ProcPrsnPk

Namespace	http://fncinc.com/CHQ						
Annotations	A Unique Identifier (PK) for the Processor (within the CHQ Client's organization) that is associated with or responsible for this order. The full list of PKs for all client processors will be provided to the client by FNC.						
Diagram							
Type	xs:int						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						

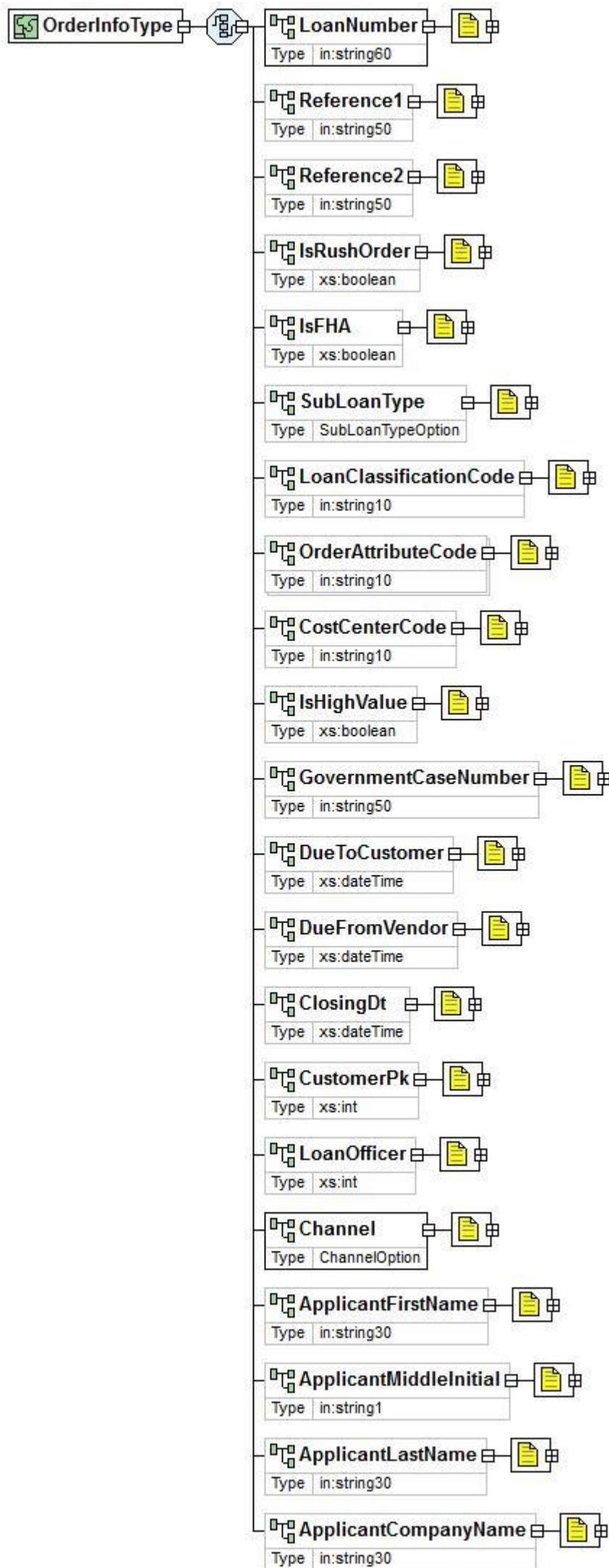
Element Order/ProcComments

Namespace	http://fncinc.com/CHQ
Annotations	Comments that are viewable by the processor only. These do not go to the Appraiser.
Diagram	
Type	xs:int
Properties	<p>content: simple</p> <p>minOccurs: 0</p> <p>maxOccurs: 1</p>

Element Order/OrderInfo

Namespace	http://fncinc.com/CHQ
Annotations	Includes information related to the order, such as Loan Number

Diagram



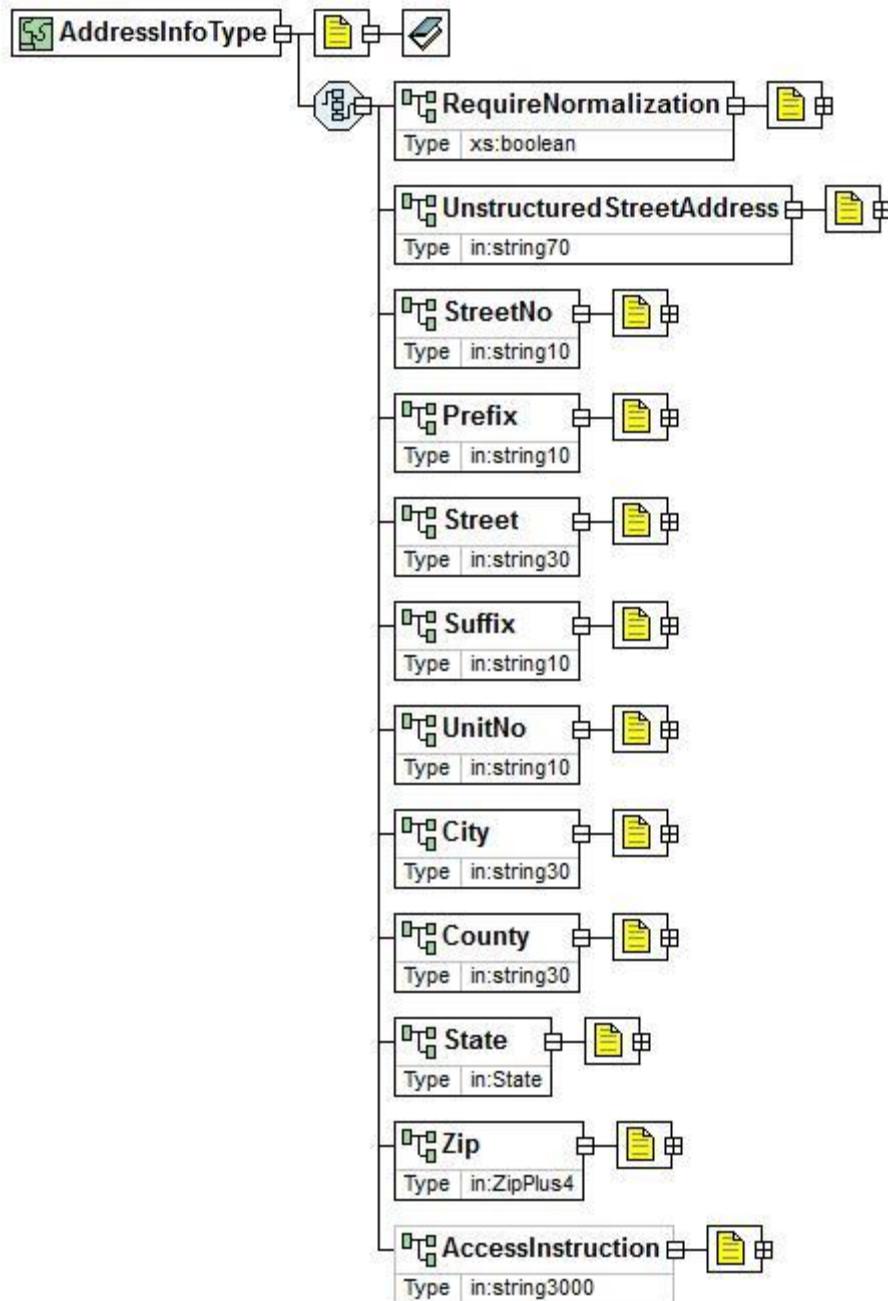
Type

OrderInfoType

Properties	content: complex minOccurs: 1 maxOccurs: 1
Instance	<pre> <OrderInfo xmlns="http://fncinc.com/CHQ"> <LoanNumber>{1,1}</LoanNumber> <Reference1>{0,1}</Reference1> <Reference2>{0,1}</Reference2> <IsRushOrder>{0,1}</IsRushOrder> <IsFHA>{0,1}</IsFHA> <SubLoanType>{0,1}</SubLoanType> <LoanClassificationCode>{0,1}</LoanClassificationCode> <OrderAttributeCode>{0,∞}</OrderAttributeCode> <CostCenterCode>{0,1}</CostCenterCode> <IsHighValue>{0,1}</IsHighValue> <GovernmentCaseNumber>{0,1}</GovernmentCaseNumber> <DueToCustomer>{0,1}</DueToCustomer> <DueFromVendor>{0,1}</DueFromVendor> <ClosingDt>{0,1}</ClosingDt> <CustomerPk>{0,1}</CustomerPk> <LoanOfficer>{0,1}</LoanOfficer> <Channel>{1,1}</Channel> <ApplicantFirstName>{1,1}</ApplicantFirstName> <ApplicantMiddleInitial>{0,1}</ApplicantMiddleInitial> <ApplicantLastName>{1,1}</ApplicantLastName> </OrderInfo></pre>

Element Order/PropertyAddress

Namespace	http://fncinc.com/CHQ
Annotations	Includes information related to the Property Address, such as Street # and Prefix

Diagram


Type	AddressInfoType
------	-----------------

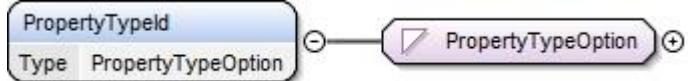
Properties	content: complex minOccurs: 1 maxOccurs: 1
------------	--

Instance	<PropertyAddress> <RequireNormalization>{1,1}</RequireNormalization> <UnstructuredStreetAddress>{1,1}</UnstructuredStreetAddress> <StreetNo>{1,1}</StreetNo> <Prefix>{1,1}</Prefix> <Street>{1,1}</Street> <Suffix>{1,1}</Suffix> <UnitNo>{1,1}</UnitNo> <City>{1,1}</City> <County>{1,1}</County> <State>{1,1}</State> <Zip>{1,1}</Zip> <AccessInstruction>{0,1}</AccessInstruction> </PropertyAddress>
----------	--

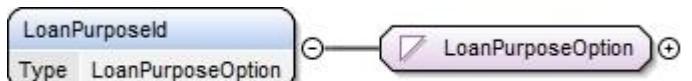
Element Order/PropertyType1d

Namespace	http://fncinc.com/CHQ
-----------	-----------------------

Annotation	Type of property (Examples: Condo Hotel, Condominium, SFR Attached) Enumeration details contained in PropertyTypeOption. The values listed below are standard options. Your client has the option to modify these and add or remove as necessary.
------------	--

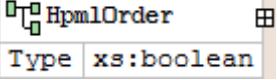
Diagram																																																																																			
Type	.PropertyTypeOption																																																																																		
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	1	maxOccurs:	1																																																																												
content:	simple																																																																																		
minOccurs:	1																																																																																		
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Element Order/LoanPurposeld

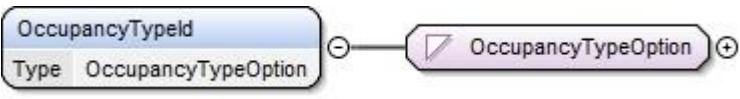
Namespace	http://fncinc.com/CHQ
Annotations	Purpose for the Loan (Examples: Purchase, Refinance) Enumeration details contained in LoanPurposeOption
Diagram	

Type	LoanPurposeOption	
Properties	content:	simple
	minOccurs:	1
	maxOccurs:	1
Facets	Enumeration	Description
	ACQ	Acquisition
	AddCo	Additional Collateral
	AMAN	Asset Management
	BFR	Bankruptcy/Foreclosure/Rehab
	BsLOC	Business LOC
	BusLo	Business Loan
	Cash	Refinance - Cash Out
	ChgCo	Change in Collateral
	CPERM	Construction-Permanent
	CRTLN	Criticized Loan
	HELOC	HELOC
	MOD	Modification
	NCash	Refinance - No Cash Out
	NCon	New Construction
	PreFo	Pre-Foreclosure
	PRTCP	Participation
	Purc	Purchase
	PURMN	Purchase Money
	RCVY	Recovery
	Refi	Refinance
	RenCa	Renewal Cash-Out
	Renew	Renewal
	RenLo	Renewal Loss-Share
	RENOV	Renovation - Perm
	REOLS	REO Loss-Share
	RMon	Routine Monitoring
	SBULN	Small Business
	Work	Workout

Element Order/Hpm1Order

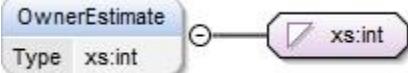
Namespace	http://fncinc.com/CHQ
Annotations	Notes whether the order is High Priced Mortagage loan. Pass 1 or 0 1 True 0 False
Diagram	
Type	xs:boolean
Properties	content: simple minOccurs: 0

Element Order/OccupancyTypeld

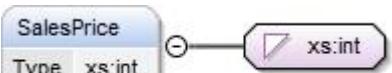
Namespace	http://fncinc.com/CHQ
Annotations	Property's occupancy type (Examples: Investor, Primary Residence) Enumeration details contained in OccupancyTypeOption
Diagram	
Type	OccupancyTypeOption
Properties	content: simple

	minOccurs:	1
	maxOccurs:	1
Facets	Enumeration	Description
	INV	Investor
	OTHER	Other
	OWN	Owner
	PR	Primary Residence
	SH	Second Home
	TEN	Tenant
	VAC	Vacant

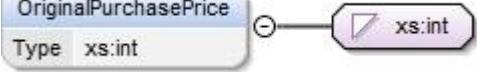
Element Order/OwnerEstimate

Namespace	http://fncinc.com/CHQ	
Annotations	Owner's Estimate of value of the property	
Diagram		
Type	xs:int	
Properties	content: simple minOccurs: 0 maxOccurs: 1	

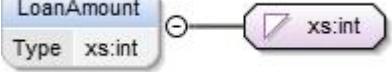
Element Order/SalesPrice

Namespace	http://fncinc.com/CHQ	
Annotations	Sales Price for the property	
Diagram		
Type	xs:int	
Properties	content: simple minOccurs: 0 maxOccurs: 1	

Element Order/OriginalPurchasePrice

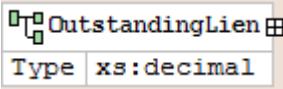
Namespace	http://fncinc.com/CHQ	
Annotations	Original Purchase Price of the Property	
Diagram		
Type	xs:int	
Properties	content: simple minOccurs: 0 maxOccurs: 1	

Element Order/LoanAmount

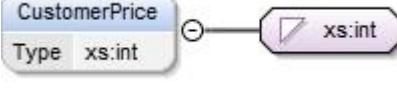
Namespace	http://fncinc.com/CHQ	
Annotations	Requested Loan Amount	
Diagram		
Type	xs:int	
Properties	content: simple	

	minOccurs: 0
	maxOccurs: 1

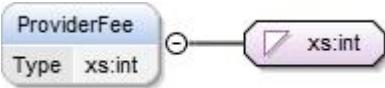
Element Order/OutstandingLien

Namespace	http://fncinc.com/CHQ
Annotations	Total amount of lien on the property.
Diagram	
Type	xs:int
Properties	content: simple minOccurs: 0 maxOccurs: 1

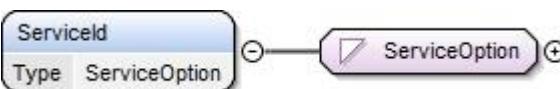
Element Order/CustomerPrice

Namespace	http://fncinc.com/CHQ
Annotations	Fee CHQ client is charging its customer to fulfill the loan request (if applicable)
Diagram	
Type	xs:int
Properties	content: simple minOccurs: 0 maxOccurs: 1

Element Order/ProviderFee

Namespace	http://fncinc.com/CHQ
Annotations	Fee CHQ client will pay the Service Provider to fulfill service requested
Diagram	
Type	xs:int
Properties	content: simple minOccurs: 0 maxOccurs: 1

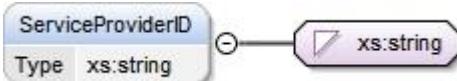
Element Order/ServiceId

Namespace	http://fncinc.com/CHQ
Annotations	Enumeration details contained in ServiceOption
Diagram	
Type	ServiceOption
Properties	content: simple minOccurs: 1 maxOccurs: 1

Facets	Enumeration	Description
	1	1004D - Update/Completion
	2	1004 - URAR
	3	1004 with 1007
	4	1004 with 216
	5	1004 with 216 and 1007
	6	1004C Manufactured Home
	7	1007 - Rent Schedule Comp.
	8	1025 - Sm. Res. Inc.
	9	1025 with 216
	10	1073 - Ind. Condo Unit
	11	1073 with 1007
	12	1073 with 216
	13	1073 with 216, 1007
	14	1075 - Ext. Ind. Condo
	15	1075 with 1007
	16	1075 with 216
	17	1075 with 216,1007
	18	2000 - 1 Unit Field Review
	19	2000A - 2 to 4 Unit Field Review
	20	2055 Ext with 1007
	21	2055 Ext with 216
	22	2055 Ext with 216, 1007
	23	2055 Exterior Residential
	24	2070 - Cond and Mkt Report
	25	2090 - Co-Op Interest
	26	2095 - Co-Op Ext Interest
	27	216 - Operating Inc.
	28	442 - Satisfactory Certificate
	29	Land Appraisal Report
	30	Recertification of Value
	31	BPO - Interior
	32	BPO - Exterior
	33	2006 - Short Form Review
	34	Field Review
	35	Desk Review
	36	2075 - Property Inspection
	37	Compliance Inspection Report
	38	Desktop Restricted Use Report
	39	Photo Only
	40	2055 Interior
	41	1007 w/ 216
	42	Computer Assisted Appraisal
	43	1004C w/ 216 and 1007
	44	1025 w/ 1007
	45	1025 w/ 216 and 1007
	46	Addendum Letter
	47	Reassessment of Value
	48	1004C with 1007
	49	1004C with 216
	50	Construction Draw
	51	REO Addendum
	52	ERC - Relocation
	53	Narrative
	54	Commercial
	55	Request for Bid
	56	FNMA BPO Exterior
	57	FNMA BPO Interior
	58	1004 with REO Addendum
	59	FNC BPO - Interior
	60	2045 - Master Residential Appraisal

61	Appraiser Assisted AVM
62	AVM
63	Third Party Originator Review
64	2045A - Master Residential Appraisal - Amendment
65	Other
66	CDNA Service
67	1004C with REO Addendum
68	1025 with REO Addendum
69	1073 with REO Addendum
70	Revision
71	FNC BPO - Exterior
72	PR Sitex
73	HistoryPro
74	Initial Review
75	1004 No Cost Approach
76	1004 Cost Approach
77	1004 No Cost with 6 Month Liquidation Value
78	1004D Update
79	1004D Completion
80	LOANSAFE CM
81	GEOAVM
82	External Reconciliation
83	Internal Reconciliation
84	Comp Search
85	Work to Date
86	Partial Inspection Fee
87	Interior Inspection
88	Court Testimony
89	FNMA 2-4 Family Field Review Exterior
90	FNMA 2-4 Family Field Review Interior
91	FNMA One Unit Field Review Exterior
92	FNMA One Unit Field Review Interior
93	Investigative Enhanced Review
94	Investigative Review
95	Investigative Review Following Retrospective Appraisal
96	MLS Data and Assessor Verification
97	Service Placeholder
98	Service Placeholder
99	Automated Review
100-150	Service Placeholders

Element Order/ServiceProviderID

Namespace	http://fncinc.com/CHQ						
Annotations	Service Provider ID: PrsnPK generated in CMS.Net system and associated with the service provider						
Diagram	 <pre> classDiagram class ServiceProviderID { Type xs:string } ServiceProviderID o--> xs:string </pre>						
Type	xs:string						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						

Element Order/BorrowerContact

Namespace	http://fncinc.com/CHQ
-----------	-----------------------

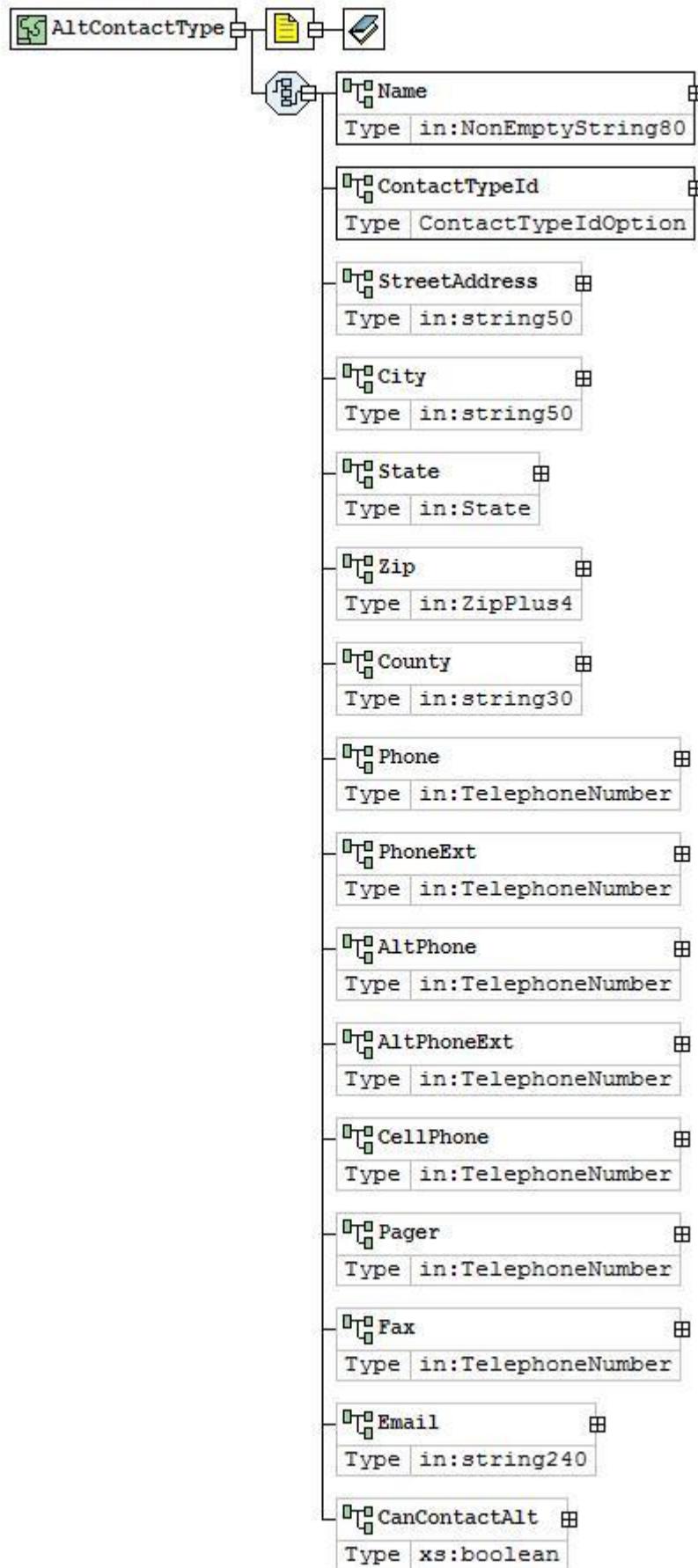
Annotations	Includes Information related to the borrower, such as First Name and Last Name
Diagram	 <pre> classDiagram class ContactType { <<Object>> <<ContactType>> <<ContactTypeDetails>> } class ContactTypeDetails { <<Name>> <<ContactTypeId>> <<StreetAddress>> <<City>> <<State>> <<Zip>> <<County>> <<Phone>> <<PhoneExt>> <<AltPhone>> <<AltPhoneExt>> <<CellPhone>> <<Pager>> <<Fax>> <<Email>> <<CanContact>> } ContactType < -- ContactTypeDetails ContactType < -- ContactType ContactType < -- ContactTypeDetails </pre>
Type	ContactType
Properties	content: complex minOccurs: 1
Instance	<pre> <BorrowerContact> <Name>{1,1}</Name> <ContactTypeld>{1,1}</ContactTypeld> <StreetAddress>{1,1}</StreetAddress> <City>{1,1}</City> <State>{1,1}</State> </pre>

```
<Zip>{1,1}</Zip>
<County>{1,1}</County>
<Phone>{0,1}</Phone>
<PhoneExt>{0,1}</PhoneExt>
<AltPhone>{0,1}</AltPhone>
<AltPhoneExt>{0,1}</AltPhoneExt>
<CellPhone>{0,1}</CellPhone>
<Pager>{0,1}</Pager>
<Fax>{0,1}</Fax>
<Email>{0,1}</Email>
<CanContact>{0,1}</CanContact>
</BorrowerContact>
```

Element Order/AlternateContact

Namespace <http://fncinc.com/CHQ>

Annotations Includes Information related to the alternate contact, such as First Name and Last Name. This node can be repeated up to 20 times.

Diagram


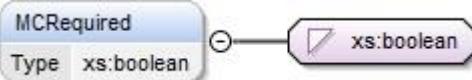
Type	AltContactType
Properties	content: complex minOccurs: 1 maxOccurs unbounded
Instance	<pre> <AlternateContact> <Name>{1,1}</Name> <ContactTypeld>{1,1}</ContactTypeld> <StreetAddress>{1,1}</StreetAddress> <City>{1,1}</City> <State>{1,1}</State> <Zip>{1,1}</Zip> <County>{1,1}</County> </pre>

```

<Phone>{0,1}</Phone>
<PhoneExt>{0,1}</PhoneExt>
<AltPhone>{0,1}</AltPhone>
<AltPhoneExt>{0,1}</AltPhoneExt>
<CellPhone>{0,1}</CellPhone>
<Pager>{0,1}</Pager>
<Fax>{0,1}</Fax>
<Email>{0,1}</Email>
<CanContactAlt>{0,1}</CanContactAlt>
</AlternateContact>

```

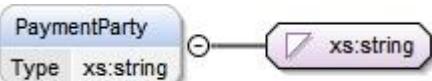
Element Order/MCRequired

Namespace	http://fncinc.com/CHQ
Annotations	Used to denote that the 1004MC addendum is required for this order. (Pass a value of 1 if MC is required. Otherwise, pass nothing or a 0.)
Diagram	
Type	xs:boolean
Properties	content: simple minOccurs: 0

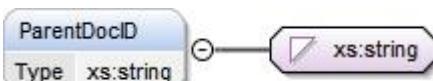
Element Order/IsBorrowerCC

Namespace	http://fncinc.com/CHQ
Annotations	Denotes where the borrower's Credit Card is billed previously for the order (1 if it is charged. Otherwise, pass nothing or a 0.)
Diagram	
Type	xs:boolean
Properties	content: simple minOccurs: 0

Element Order/PaymentParty

Namespace	http://fncinc.com/CHQ
Annotations	Used to trigger credit card collections email and to set the status of the order to "WAITING FOR PAYMENT"
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Element Order/ParentDocID

Namespace	http://fncinc.com/CHQ
Annotations	Used to assign child services. LOS need to pass the Doc ID it wishes to add another service.
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Element Order/ByPassDupChk

Namespace	http://fncinc.com/CHQ
Annotations	Bypass same service duplicate check. Pass 1 or 0 1 True 0 False
Diagram	
Type	xs:boolean
Properties	content: simple minOccurs: 0

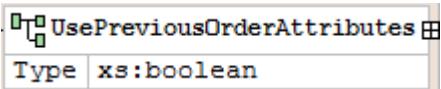
Element Order/UsePreviousServiceProvider

Namespace	http://fncinc.com/CHQ
Annotations	Use Previous Service Provider. Assign order to same service provider from Parent DocID. Pass 1 or 0 1 True 0 False
Diagram	
Type	xs:boolean
Properties	content: simple minOccurs: 0

Element Order/UsePreviousReviewer

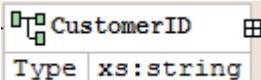
Namespace	http://fncinc.com/CHQ
Annotations	Use Previous Reviewer. Assign order to same reviewer from Parent DocID. Pass 1 or 0 1 True 0 False
Diagram	
Type	xs:boolean
Properties	content: simple minOccurs: 0

Element Order/UsePreviousOrderAttributes

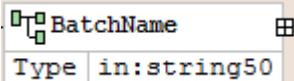
Namespace	http://fncinc.com/CHQ
Annotations	Use the attributes of the previous order. Parent DocId must be provided. If not, the flag will be ignored.
Diagram	
Type	xs:boolean
Properties	content: simple

minOccurs: 0

Element Order/CustomerID

Namespace	http://fncinc.com/CHQ
Annotations	CustomerID to be associated with the order.
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

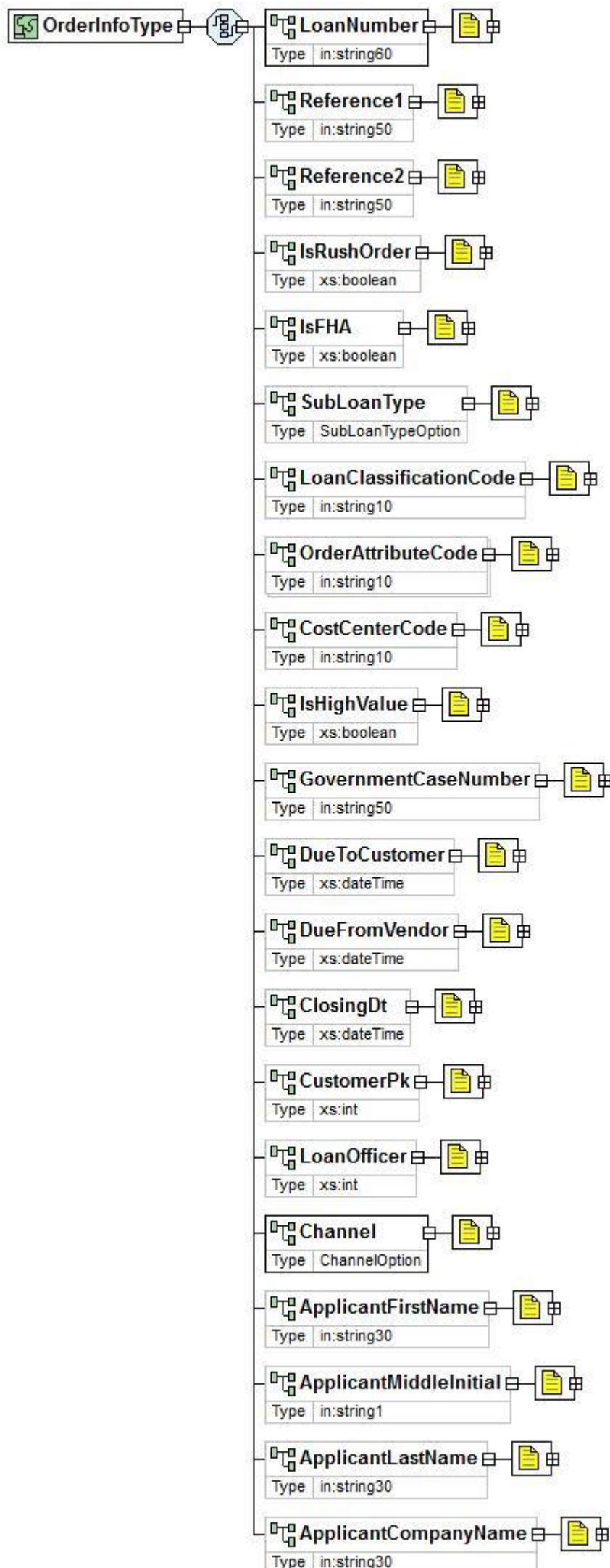
Element Order/BatchName

Namespace	http://fncinc.com/CHQ
Annotations	Field name used to associate the order to a batch.
Diagram	
Type	in:string50
Properties	content: simple minOccurs: 0 maxOccurs: 1

OrderInfo Node Elements
Complex Type

Namespace http://fncinc.com/CHQ

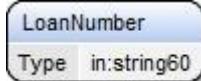
Diagram



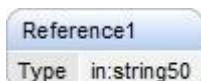
Used by

Element CreateOrderRq/OrderInfo

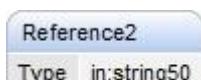
Element OrderInfo/LoanNumber

Namespace	http://fncinc.com/CHQ
Annotations	Loan Number for order being placed
Diagram	
Type	String60
Properties	content: simple minOccurs: 1

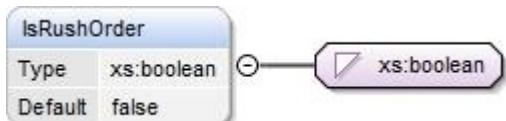
Element OrderInfo/Reference1

Namespace	http://fncinc.com/CHQ
Annotations	Additional Order Identifier the client wishes to send with the order
Diagram	
Type	String50
Properties	content: simple minOccurs: 0

Element OrderInfo/Reference2

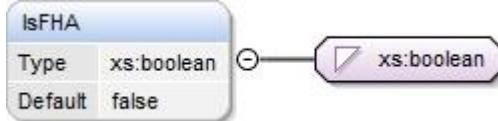
Namespace	http://fncinc.com/CHQ
Annotations	Additional Order Identifier the client wishes to send with the order
Diagram	
Type	String50
Properties	content: simple minOccurs: 0

Element OrderInfo/IsRushOrder

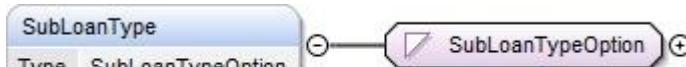
Namespace	http://fncinc.com/CHQ
Annotations	Used to denote an order is a Rush order. (Pass a value of 1 if it is a Rush order. Otherwise, pass nothing or a 0.)
Diagram	
Type	xs:boolean
Properties	content: simple minOccurs: 0 default: false

Element OrderInfo/IsFHA

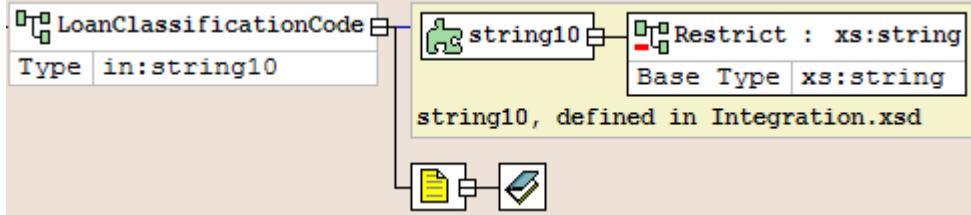
Namespace	http://fncinc.com/CHQ
Annotations	(Deprecated USE SubLoanType Instead) Used to denote an order is an FHA order. (Pass a value of 1 if it is an FHA order. Otherwise, pass nothing or a 0.)

Diagram							
Type	xs:boolean						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>default:</td> <td>false</td> </tr> </table>	content:	simple	minOccurs:	0	default:	false
content:	simple						
minOccurs:	0						
default:	false						

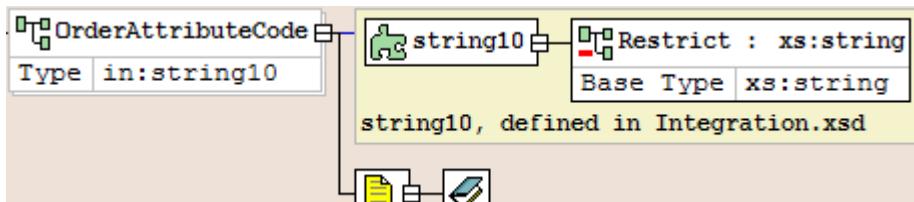
Element OrderInfo/SubLoanType

Namespace	http://fncinc.com/CHQ								
Annotations	Use this for setting different types of government loan types. Depreciates IsFHA type. Use this node instead.								
Diagram									
Type	SubLoanTypeOption								
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0				
content:	simple								
minOccurs:	0								
Facets	<table border="1"> <tr> <td>enumeration</td> <td>203</td> </tr> <tr> <td>enumeration</td> <td>FHA</td> </tr> <tr> <td>enumeration</td> <td>USDA</td> </tr> <tr> <td>enumeration</td> <td>VA</td> </tr> </table>	enumeration	203	enumeration	FHA	enumeration	USDA	enumeration	VA
enumeration	203								
enumeration	FHA								
enumeration	USDA								
enumeration	VA								

Element OrderInfo/LoanClassificationCode

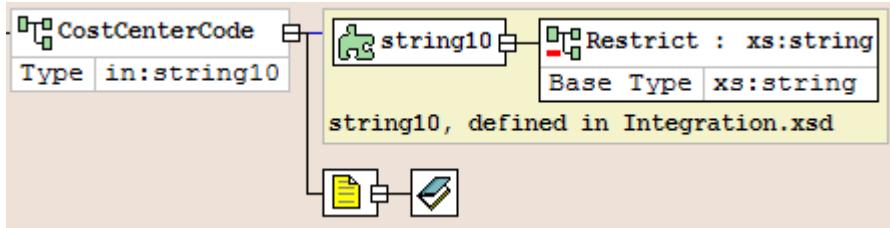
Namespace	http://fncinc.com/CHQ						
Annotations	Loan Classification Code. These values are based on a specific app instance.						
Diagram							
Type	String10						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						

Element OrderInfo/OrderAttributeCode

Namespace	http://fncinc.com/CHQ
Annotations	Order Attribute Code. Used with UsePreviousOrderAttribute flag. This node will repeat based on how many Order Attributes are used. These values are specific to the app instance.
Diagram	

Type	String10
Properties	content: simple minOccurs: 0 maxOccurs: unbounded

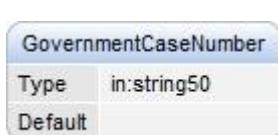
Element OrderInfo/CostCenterCode

Namespace	http://fncinc.com/CHQ
Annotations	Cost Center Code. This code will designate the specific Cost Center to which the order is associated. The list of Cost Center Id's will be provided by FNC.
Diagram	
Type	String10
Properties	content: simple minOccurs: 0 maxOccurs: 1

Element OrderInfo/IsHighValue

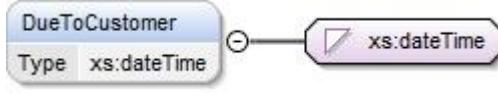
Namespace	http://fncinc.com/CHQ
Annotations	Used to denote a property as considered to be a high value property. (Pass a value of 1 if it is high value. Otherwise, pass nothing or a 0.)
Diagram	
Type	xs:boolean
Properties	content: simple minOccurs: 0 default: false

Element OrderInfo/GovernmentCaseNumber

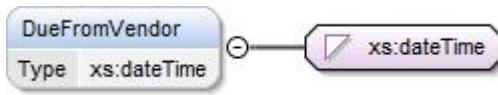
Namespace	http://fncinc.com/CHQ
Annotations	Case Number for FHA, etc orders
Diagram	
Type	string30
Properties	content: simple minOccurs: 0 default:

Element OrderInfo/DueToCustomer

Namespace	http://fncinc.com/CHQ
Annotations	Date the Order is due back to the Client's customer

Diagram					
Type	xs:dateTime				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element OrderInfo/DueFromVendor

Namespace	http://fncinc.com/CHQ				
Annotations	Date the Order is due from the service provider (Appraiser/Broker). (NOTE: If this value is not passed, the date will be calculated based on the turn times maintained in CHQ.)				
Diagram					
Type	xs:dateTime				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element OrderInfo/ClosingDt

Namespace	http://fncinc.com/CHQ				
Annotations	The expected closing date of the loan.				
Diagram					
Type	xs:dateTime				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element OrderInfo/CustomerPk

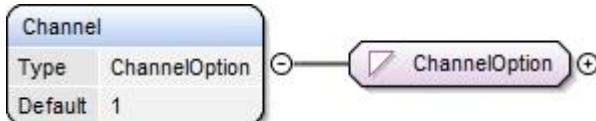
Namespace	http://fncinc.com/CHQ				
Annotations	A Unique Identifier (PK) for the Customer associated with this order. The list of PKs for all customers will be provided to the client by FNC. If no customer is to be assigned to the order pass 0 (zero) as the value				
Diagram					
Type	xs:int				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Element OrderInfo/LoanOfficer

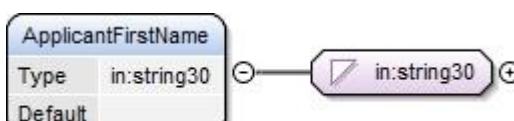
Namespace	http://fncinc.com/CHQ
Annotations	A Unique Identifier (PK) for the Loan Officer associated with this order. The list of PKs for all Loan Officers will be provided to the client by FNC. The Loan Officer must be associated with the CustomerPk. If no Loan Officer is to be assigned to the order pass 0 (zero) as the value
Diagram	

Type	xs:int
Properties	content: simple minOccurs: 0

Element OrderInfo/Channel

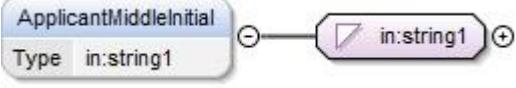
Namespace	http://fncinc.com/CHQ																																																																			
Annotations	Channel for which the order is placed (Example: Retail, Wholesale)																																																																			
Diagram	 <pre> classDiagram class Channel { Type ChannelOption Default 1 } class ChannelOption Channel "1..>" --> "1..>" ChannelOption </pre>																																																																			
Type	ChannelOption																																																																			
Properties	content: simple minOccurs: 1 default: 1																																																																			
Facets	<table> <thead> <tr> <th></th> <th>Enumeration</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>Retail</td> </tr> <tr> <td>2</td> <td></td> <td>Wholesale</td> </tr> <tr> <td>4</td> <td></td> <td>Correspondent</td> </tr> <tr> <td>5</td> <td></td> <td>Servicing</td> </tr> <tr> <td>6</td> <td></td> <td>Foreclosure</td> </tr> <tr> <td>7</td> <td></td> <td>Quality Control</td> </tr> <tr> <td>8</td> <td></td> <td>Quality Assurance</td> </tr> <tr> <td>9</td> <td></td> <td>REO</td> </tr> <tr> <td>10</td> <td></td> <td>Modifications</td> </tr> <tr> <td>11</td> <td></td> <td>Other</td> </tr> <tr> <td>16</td> <td></td> <td>Acquisition</td> </tr> <tr> <td>20</td> <td></td> <td>Commercial</td> </tr> <tr> <td>21</td> <td></td> <td>Commercial/RIMS</td> </tr> <tr> <td>22</td> <td></td> <td>CLC-Retail/Consumer</td> </tr> <tr> <td>23</td> <td></td> <td>Loss Mitigation</td> </tr> <tr> <td>25</td> <td></td> <td>Bankruptcy</td> </tr> <tr> <td>26</td> <td></td> <td>Secondary Market</td> </tr> <tr> <td>28</td> <td></td> <td>Small Business</td> </tr> <tr> <td>29</td> <td></td> <td>Business Banking</td> </tr> <tr> <td>30</td> <td></td> <td>Middle Market / Corporate</td> </tr> <tr> <td>31</td> <td></td> <td>Health Care Lending</td> </tr> </tbody> </table>			Enumeration	Description	1		Retail	2		Wholesale	4		Correspondent	5		Servicing	6		Foreclosure	7		Quality Control	8		Quality Assurance	9		REO	10		Modifications	11		Other	16		Acquisition	20		Commercial	21		Commercial/RIMS	22		CLC-Retail/Consumer	23		Loss Mitigation	25		Bankruptcy	26		Secondary Market	28		Small Business	29		Business Banking	30		Middle Market / Corporate	31		Health Care Lending
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Element OrderInfo/ApplicantFirstName

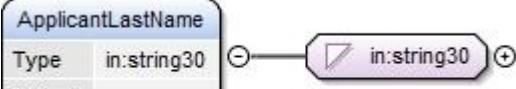
Namespace	http://fncinc.com/CHQ	
Annotations	Borrower's First Name	
Diagram	 <pre> classDiagram class ApplicantFirstName { Type } class string30 ApplicantFirstName "1..>" --> "1..>" string30 </pre>	
Type	string30	
Properties	content: simple minOccurs: 0 default:	
Facets	maxLength 30	

Element OrderInfo/ApplicantMiddleInitial

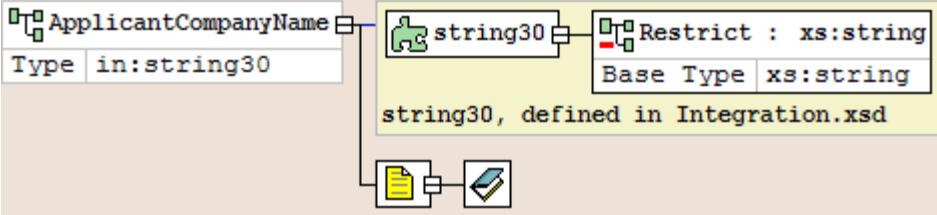
Namespace	http://fncinc.com/CHQ
-----------	-----------------------

Annotations	Borrower's Middle Initial
Diagram	
Type	string1
Properties	content: simple minOccurs: 0
Facets	maxLength 1

Element OrderInfo/ApplicantLastName

Namespace	http://fncinc.com/CHQ
Annotations	Borrower's Last Name
Diagram	
Type	string30
Properties	content: simple minOccurs: 0 default:
Facets	maxLength 30

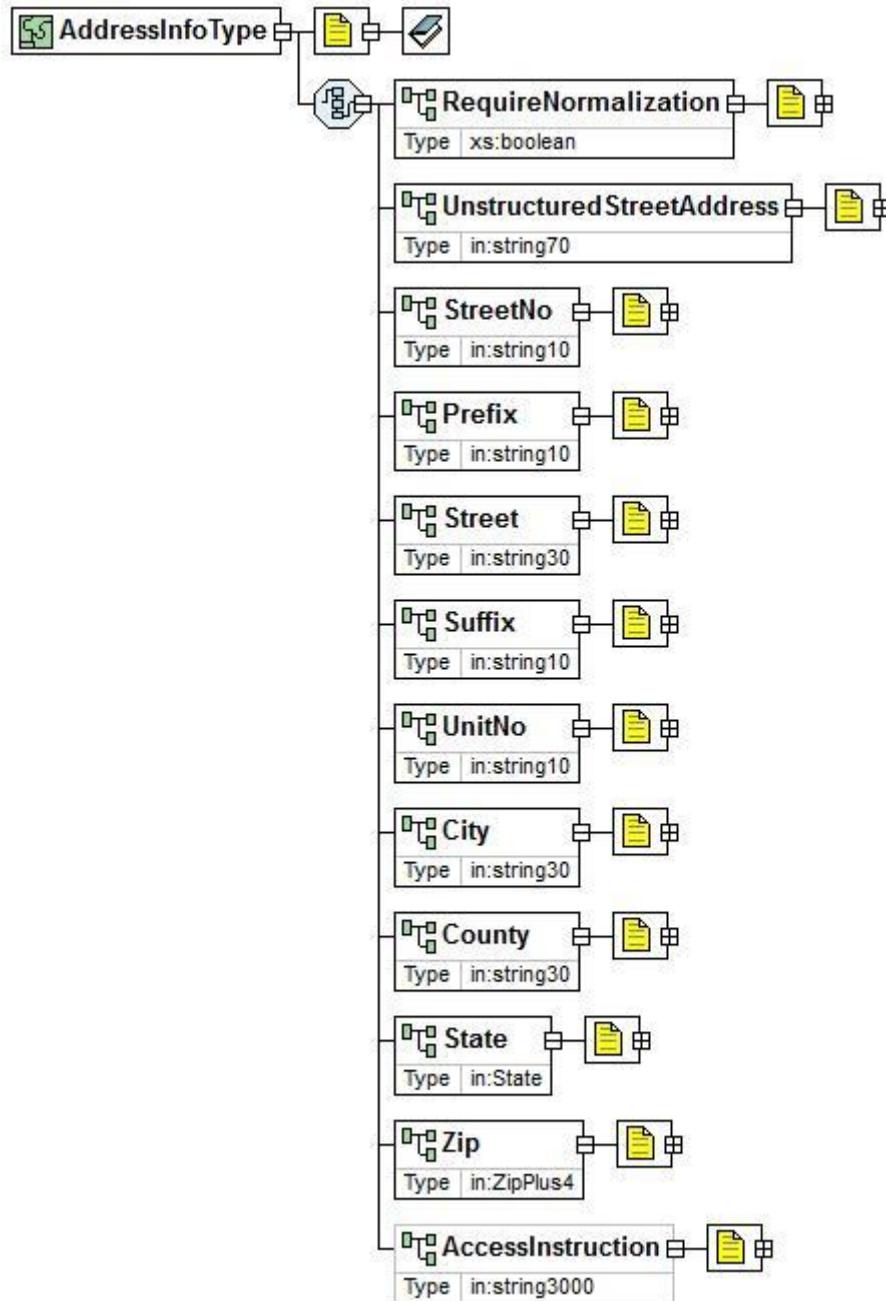
Element OrderInfo/ApplicantCompanyName

Namespace	http://fncinc.com/CHQ
Annotations	Borrower's Company Name
Diagram	
Type	string30
Properties	content: simple minOccurs: 0 default:
Facets	maxLength 30

Property Address Node Elements

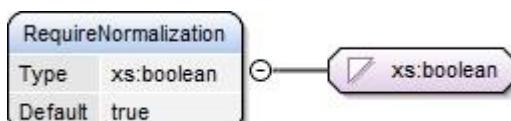
Complex Type AddressInfoType

Namespace	http://fncinc.com/CHQ
Annotations	When UnstructuredStreetAddress is present, FNC will use the unstructured data instead.

Diagram

Used by

Element CreateOrderRqType/PropertyAddress

Element [PropertyAddress/RequireNormalization](#)
Namespace <http://fncinc.com/CHQ>
Annotations Used to denote if address requires normalization. If the address has been normalized and therefore parsed into separate fields below (StreetNo, Prefix, Street and Suffix), then RequireNormalization should be 0. If the address requires normalization and will be passed in one field (UnstructuredStreetAddress), then the value should be 1. If 1, CHQ will normalize the address and store in CHQ appropriately.

Diagram

Type

boolean

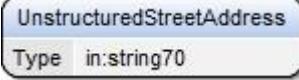
Properties

content: simple

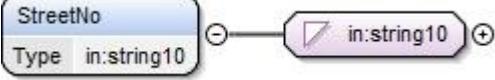
minOccurs: 1

default: true

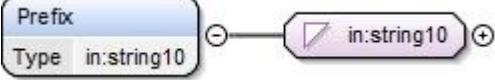
Element [PropertyAddress/UnstructuredStreetAddress](#)
Namespace <http://fncinc.com/CHQ>

Annotations	Pass Street Address in this field if normalization is required
Diagram	
Type	string70
Properties	content: simple minOccurs: 1

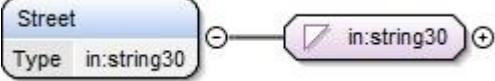
Element [PropertyAddress/StreetNo](#)

Namespace	http://fncinc.com/CHQ
Annotations	Street No portion of Street Address
Diagram	
Type	string10
Properties	content: simple minOccurs: 1
Facets	maxLength 10

Element [PropertyAddress/Prefix](#)

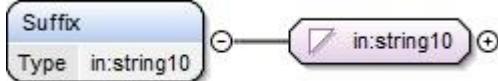
Namespace	http://fncinc.com/CHQ
Annotations	Prefix portion of Street Address
Diagram	
Type	string10
Properties	content: simple minOccurs: 1
Facets	maxLength 10

Element [PropertyAddress/Street](#)

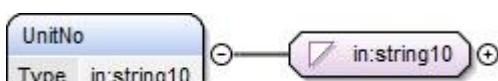
Namespace	http://fncinc.com/CHQ
Annotations	Street Name for Street Address
Diagram	
Type	string30
Properties	content: simple minOccurs: 1
Facets	maxLength 30

Element [PropertyAddress/Suffix](#)

Namespace	http://fncinc.com/CHQ
Annotations	Suffix for Street Address

Diagram	
Type	string10
Properties	content: simple minOccurs: 1
Facets	maxLength 10

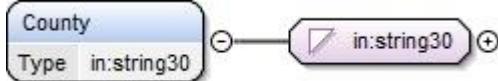
Element PropertyAddress/UnitNo

Namespace	http://fncinc.com/CHQ
Annotations	Unit No for Property
Diagram	
Type	string10
Properties	content: simple minOccurs: 1
Facets	maxLength 10

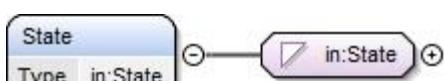
Element PropertyAddress/City

Namespace	http://fncinc.com/CHQ
Annotations	City for Property
Diagram	
Type	string30
Properties	content: simple minOccurs: 1

Element PropertyAddress/County

Namespace	http://fncinc.com/CHQ
Annotations	County for Property
Diagram	
Type	string30
Properties	content: simple minOccurs: 1
Facets	maxLength 30

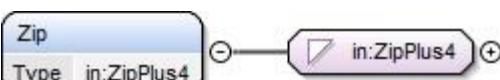
Element PropertyAddress/State

Namespace	http://fncinc.com/CHQ
Annotations	State for Property
Diagram	
Type	State

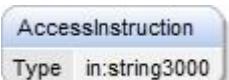
Properties	content: simple minOccurs: 1
Facets	enumeration AL enumeration AK enumeration AZ enumeration AR enumeration CA enumeration CO enumeration CT enumeration DE enumeration DC enumeration FL enumeration GA enumeration HI enumeration ID enumeration IL enumeration IN enumeration IA enumeration KS enumeration KY enumeration LA enumeration ME enumeration MD enumeration MA enumeration MI enumeration MN enumeration MS enumeration MO enumeration MT enumeration NE enumeration NV enumeration NH enumeration NJ enumeration NM enumeration NY enumeration NC enumeration ND enumeration OH enumeration OK enumeration OR enumeration PA enumeration RI enumeration SC enumeration SD enumeration TN enumeration TX

enumeration	UT
enumeration	VT
enumeration	VA
enumeration	WA
enumeration	WV
enumeration	WI
enumeration	WY
enumeration	AS
enumeration	FM
enumeration	GU
enumeration	MH
enumeration	MP
enumeration	PW
enumeration	PR
enumeration	VI

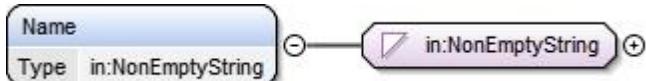
Element [PropertyAddress/Zip](#)

Namespace	http://fncinc.com/CHQ				
Annotations	Zip Code for Property				
Diagram					
Type	ZipPlus4				
Properties	<table border="1"> <tr><td>content:</td><td>simple</td></tr> <tr><td>minOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				

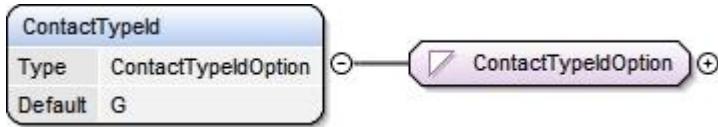
Element [PropertyAddress/AccessInstruction](#)

Namespace	http://fncinc.com/CHQ				
Annotations	Special Instructions to be communicated to the Service Provider (Appraiser/Broker)				
Diagram					
Type	string3000				
Properties	<table border="1"> <tr><td>content:</td><td>simple</td></tr> <tr><td>minOccurs:</td><td>0</td></tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

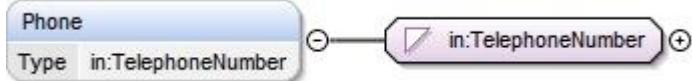
Contact Type Node Elements
Element [BorrowerContact/Name](#)

Namespace	http://fncinc.com/CHQ				
Annotations	Contact's Full Name				
Diagram					
Type	NonEmptyString				
Properties	<table border="1"> <tr><td>content:</td><td>simple</td></tr> <tr><td>minOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				
Facets	minLength 1				

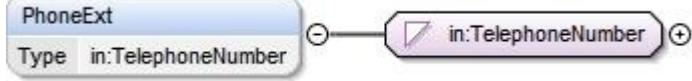
Element [BorrowerContact/ContactTypeId](#)

Namespace	http://fncinc.com/CHQ																													
Annotations	The contact sent in the BorrowerContact node will always be created as the Borrower in CMS.																													
Diagram																														
Type	ContactTypeOption																													
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>default:</td> <td>B</td> </tr> </table>		content:	simple	minOccurs:	1	default:	B																						
content:	simple																													
minOccurs:	1																													
default:	B																													
Facets	<table> <thead> <tr> <th></th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>B</td> <td>Borrower</td> </tr> <tr> <td>BA</td> <td>Buyer's Agent</td> </tr> <tr> <td>BK</td> <td>Broker</td> </tr> <tr> <td>BU</td> <td>Builder</td> </tr> <tr> <td>BY</td> <td>Buyer</td> </tr> <tr> <td>C</td> <td>Contact</td> </tr> <tr> <td>CB</td> <td>Co-Borrower</td> </tr> <tr> <td>E</td> <td>Entry</td> </tr> <tr> <td>G</td> <td>General Contact</td> </tr> <tr> <td>L</td> <td>Loan Officer</td> </tr> <tr> <td>LA</td> <td>Listing Agent</td> </tr> <tr> <td>O</td> <td>Owner</td> </tr> <tr> <td>S</td> <td>Seller</td> </tr> </tbody> </table>			Description	B	Borrower	BA	Buyer's Agent	BK	Broker	BU	Builder	BY	Buyer	C	Contact	CB	Co-Borrower	E	Entry	G	General Contact	L	Loan Officer	LA	Listing Agent	O	Owner	S	Seller
	Description																													
B	Borrower																													
BA	Buyer's Agent																													
BK	Broker																													
BU	Builder																													
BY	Buyer																													
C	Contact																													
CB	Co-Borrower																													
E	Entry																													
G	General Contact																													
L	Loan Officer																													
LA	Listing Agent																													
O	Owner																													
S	Seller																													

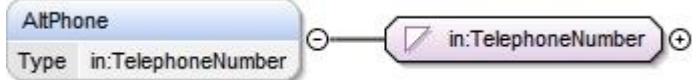
Element BorrowerContact/Phone

Namespace	http://fncinc.com/CHQ					
Annotations	Contact's Phone Number					
Diagram						
Type	PhoneNumber					
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>		content:	simple	minOccurs:	0
content:	simple					
minOccurs:	0					

Element BorrowerContact/PhoneExt

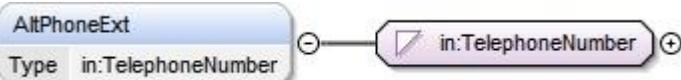
Namespace	http://fncinc.com/CHQ					
Annotations	Contact's Phone Extension					
Diagram						
Type	PhoneNumber					
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>		content:	simple	minOccurs:	0
content:	simple					
minOccurs:	0					

Element BorrowerContact/AltPhone

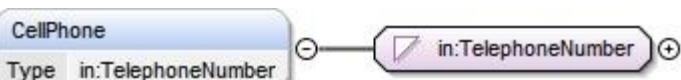
Namespace	http://fncinc.com/CHQ	
Annotations	Alternate Phone Number	
Diagram		
Type	PhoneNumber	

Properties	content: simple minOccurs: 0
------------	---------------------------------

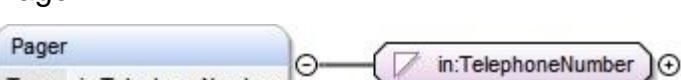
Element BorrowerContact/AltPhoneExt

Namespace	http://fncinc.com/CHQ
Annotations	Alternate Phone Number Extension
Diagram	 <pre> graph LR AltPhoneExt[AltPhoneExt] -- "0..1" --> inPhoneNumber[in:PhoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

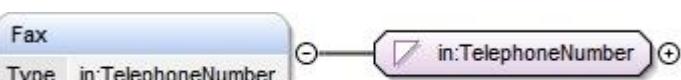
Element BorrowerContact/CellPhone

Namespace	http://fncinc.com/CHQ
Annotations	Cell Phone Number
Diagram	 <pre> graph LR CellPhone[CellPhone] -- "0..1" --> inPhoneNumber[in:PhoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

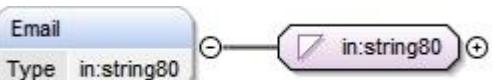
Element BorrowerContact/Pager

Namespace	http://fncinc.com/CHQ
Annotations	Pager
Diagram	 <pre> graph LR Pager[Pager] -- "0..1" --> inPhoneNumber[in:PhoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

Element BorrowerContact/Fax

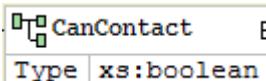
Namespace	http://fncinc.com/CHQ
Annotations	Fax Number
Diagram	 <pre> graph LR Fax[Fax] -- "0..1" --> inPhoneNumber[in:PhoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

Element BorrowerContact/Email

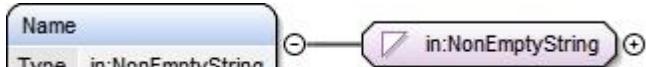
Namespace	http://fncinc.com/CHQ
Annotations	E-mail Address
Diagram	 <pre> graph LR Email[Email] -- "0..1" --> inString80[in:string80] </pre>
Type	string80

Properties	content:	Simple
	minOccurs:	0
Facets	maxLength	80

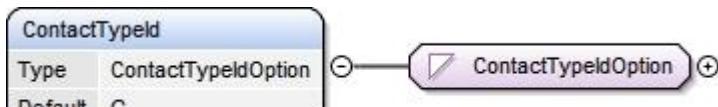
Element BorrowerContact/CanContact

Namespace	http://fncinc.com/CHQ
Annotations	Can this contact be contacted? This will determine if the borrower info should be sent to the appraiser.
Diagram	
Type	Boolean
Properties	content: Simple minOccurs: 0 Default: False

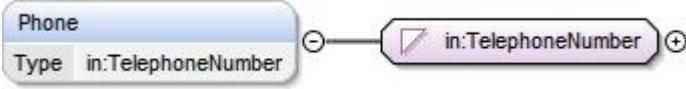
Element AlternateContact/Name

Namespace	http://fncinc.com/CHQ
Annotations	Contact's Full Name
Diagram	
Type	NonEmptyString
Properties	content: simple minOccurs: 1
Facets	minLength: 1

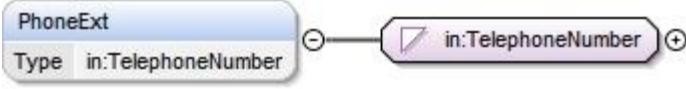
Element AlternateContact/ContactTypeld

Namespace	http://fncinc.com/CHQ
Annotations	Enumeration details contained in ContactTypeldOption
Diagram	
Type	ContactTypeldOption
Properties	content: simple minOccurs: 1 default: G
Facets	Enumeration Description B Borrower BA Buyer's Agent BK Broker BU Builder BY Buyer C Contact CB Co-Borrower E Entry G General Contact L Loan Officer LA Listing Agent O Owner S Seller

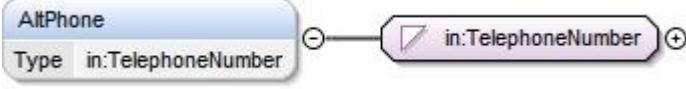
Element AlternateContact/Phone

Namespace	http://fncinc.com/CHQ
Annotations	Contact's Phone Number
Diagram	 <pre> graph LR Phone[Phone Type in:PhoneNumber] --> inPhoneNumber[in:PhoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

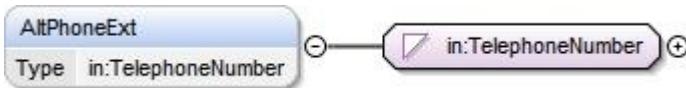
Element AlternateContact/PhoneExt

Namespace	http://fncinc.com/CHQ
Annotations	Contact's Phone Extension
Diagram	 <pre> graph LR PhoneExt[PhoneExt Type in:PhoneNumber] --> inPhoneNumber[in:PhoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

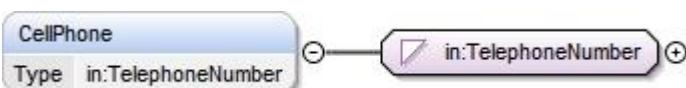
Element AlternateContact/AltPhone

Namespace	http://fncinc.com/CHQ
Annotations	Alternate Phone Number
Diagram	 <pre> graph LR AltPhone[AltPhone Type in:PhoneNumber] --> inPhoneNumber[in:PhoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

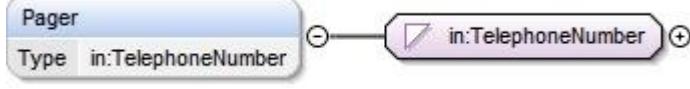
Element AlternateContact/AltPhoneExt

Namespace	http://fncinc.com/CHQ
Annotations	Alternate Phone Number Extension
Diagram	 <pre> graph LR AltPhoneExt[AltPhoneExt Type in:PhoneNumber] --> inPhoneNumber[in:PhoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

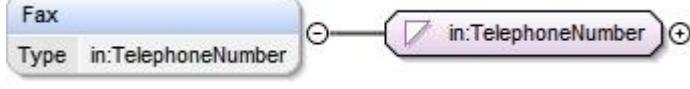
Element AlternateContact/CelPhone

Namespace	http://fncinc.com/CHQ
Annotations	Cell Phone Number
Diagram	 <pre> graph LR CellPhone[CellPhone Type in:PhoneNumber] --> inPhoneNumber[in:PhoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

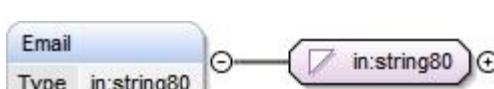
Element AlternateContact/Pager

Namespace	http://fncinc.com/CHQ
Annotations	Pager
Diagram	
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

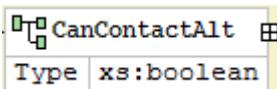
Element AlternateContact/Fax

Namespace	http://fncinc.com/CHQ
Annotations	Fax Number
Diagram	
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

Element AlternateContact/Email

Namespace	http://fncinc.com/CHQ
Annotations	E-mail Address
Diagram	
Type	string80
Properties	content: Simple minOccurs: 0
Facets	maxLength 80

Element AlternateContact/CanContactAlt

Namespace	http://fncinc.com/CHQ
Annotations	Can the alternate contact be contacted? This will determine if the alternate contact info should be sent to the appraiser.
Diagram	
Type	Boolean
Properties	content: Simple minOccurs: 0 Default: False

Sample XML

```

<?xml version="1.0" encoding="utf-8"?>
<CreateOrderRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header Version="1.0">
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">SourceApp</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">CHQ</TargetApp>
    <AppInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</AppInstance>
    <AppInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</AppInstanceLogin>
    <AppInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123</AppInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2008-09-05T14:39:46.1574462-05:00</Timestamp>
    <MessageId xmlns="http://fncinc.com/Integration.xsd">bf4959c1-8b85-4929-8317-82a0833b7641</MessageId>
  </Header>
  ...
</CreateOrderRq>

```

```

</Header>
<Order>
    <GroupId>54311</GroupId>
    <ProcPrsnPk>48329</ProcPrsnPk>
    <ProcComments>This is a processor comment</ProcComments>
    <OrderInfo>
        <LoanNumber>1234135</LoanNumber>
        <Reference1>123</Reference1>
        <Reference2>456</Reference2>
        <IsRushOrder>0</IsRushOrder>
        <IsFHA>0</IsFHA>
        <SubLoanType>USDA</SubLoanType>
        <LoanClassificationCode>123A</LoanClassificationCode>
        <OrderAttributeCode>1A</OrderAttributeCode>
        <IsHighValue>0</IsHighValue>
        <GovernmentCaseNumber></GovernmentCaseNumber>
        <DueToCustomer>2009-05-27T14:11:00.943Z</DueToCustomer>
        <DueFromVendor>2009-05-27T14:11:00.943Z</DueFromVendor>
        <CustomerPk>377</CustomerPk>
        <LoanOfficer>424</LoanOfficer>
        <Channel>1</Channel>
        <ApplicantFirstName>John</ApplicantFirstName>
        <ApplicantMiddleInitial>A</ApplicantMiddleInitial>
        <ApplicantLastName>Smith</ApplicantLastName>
    </OrderInfo>
    <PropertyAddress>
        <RequireNormalization>1</RequireNormalization>
        <UnstructuredStreetAddress>123 Hill Rd</UnstructuredStreetAddress>
        <StreetNo></StreetNo>
        <Prefix></Prefix>
        <Street></Street>
        <Suffix></Suffix>
        <UnitNo></UnitNo>
        <City>Randolph</City>
        <County>Pontotoc</County>
        <State>MS</State>
        <Zip>38864</Zip>
        <AccessInstruction>Key is under the front door mat.</AccessInstruction>
    </PropertyAddress>
    <PropertyTypeId>CNDHO</PropertyTypeId>
    <LoanPurposeId>ACQ</LoanPurposeId>
    <HpmOrder>1</HpmOrder>
    <OccupancyTypeId>INV</OccupancyTypeId>
    <OwnerEstimate>100000</OwnerEstimate>
    <SalesPrice>100000</SalesPrice>
    <OriginalPurchasePrice>100000</OriginalPurchasePrice>
    <LoanAmount>80000</LoanAmount>
    <CustomerPrice>425</CustomerPrice>
    <ProviderFee>350</ProviderFee>
    <ServiceId>1</ServiceId>
    <ServiceProviderID>423</ServiceProviderID>
    <BorrowerContact>
        <Name>John Smith</Name>
        <ContactTypeId>B</ContactTypeId>
        <StreetAddress>123 Main St</StreetAddress>
        <City>Los Angeles</City>
        <State>CA</State>
        <Zip>90210</Zip>
        <County>Los Angeles</County>
        <Phone>9991234567</Phone>
        <PhoneExt></PhoneExt>
        <AltPhone></AltPhone>
        <AltPhoneExt></AltPhoneExt>
        <CellPhone></CellPhone>
        <Pager></Pager>
        <Fax></Fax>
        <Email>jsmith@mail.com</Email>
        <CanContact>1</CanContact>
    </BorrowerContact>
    <AlternateContact>
        <Name>John Smith</Name>
        <ContactTypeId>E</ContactTypeId>
        <StreetAddress>123 Main St</StreetAddress>
        <City>Los Angeles</City>
        <State>CA</State>
        <Zip>90210</Zip>
        <County>Los Angeles</County>
        <Phone></Phone>
        <PhoneExt></PhoneExt>
        <AltPhone></AltPhone>
        <AltPhoneExt></AltPhoneExt>
        <CellPhone></CellPhone>
    </AlternateContact>

```

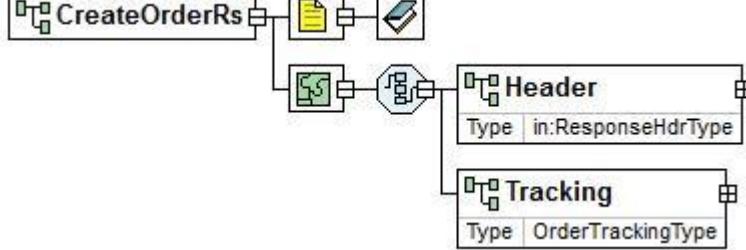
```

<Pager></Pager>
<Fax></Fax>
<Email>jsmith@mail.com</Email>
<CanContactAlt>0</CanContactAlt>
</AlternateContact>
<MCRequired>1</MCRequired>
<IsBorrowerCC>0</IsBorrowerCC>
<PaymentParty>test@fncinc.com</PaymentParty>
<ParentDocID>20030110-00001-1</ParentDocID>
<ByPassDupChk>1</ByPassDupChk>
<UsePreviousServiceProvider>1</UsePreviousServiceProvider>
<UsePreviousReviewer>1</UsePreviousReviewer>
<UsePreviousOrderAttributes>1</UsePreviousOrderAttributes>
<CustomerID>1</CustomerID>
<BatchName>ABC1234</BatchName>
</Order>
</CreateOrderRq>

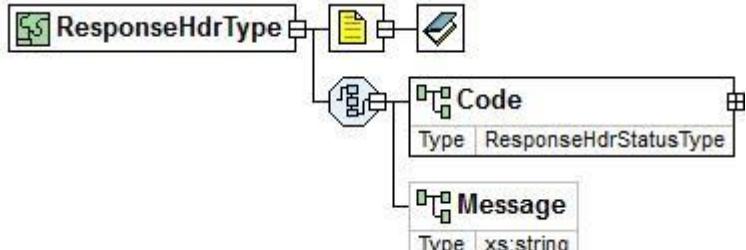
```

Create Order Response

Element CreateOrderRs

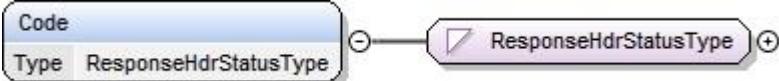
Namespace	http://fncinc.com/CHQ
Annotations	This is a synchronous call. The response is expected to return a FolderID and DocID for later reference. The response may also return a processing error and message. The Client System should store the Folder ID and Doc Id in its system.
Diagram	 <pre> classDiagram class CreateOrderRs { <<ResponseHdrType>> } class Header { <<ResponseHdrType>> Type in:ResponseHdrType } class Tracking { <<ResponseHdrType>> Type OrderTrackingType } CreateOrderRs --> ResponseHdrType ResponseHdrType --> Header ResponseHdrType --> Tracking </pre>
Properties	content: complex
Instance	<CreateOrderRs> <Header>{1,1}</Header> <Tracking>{1,1}</Tracking> </CreateOrderRs>

Element CreateOrderRs/Header

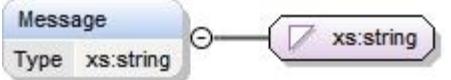
Namespace	http://fncinc.com/CHQ
Diagram	 <pre> classDiagram class ResponseHdrType { <<Code>> } class Code { <<ResponseHdrType>> Type ResponseHdrStatusType } class Message { <<ResponseHdrType>> Type xs:string } ResponseHdrType --> Code ResponseHdrType --> Message </pre>
Type	ResponseHdrType
Properties	content: complex
Model	Code , Message{0,1}
Children	Code, Message
Instance	<Header> <Code>{1,1}</Code> <Message>{0,1}</Message> </Header>

Element ResponseHdrType/Code

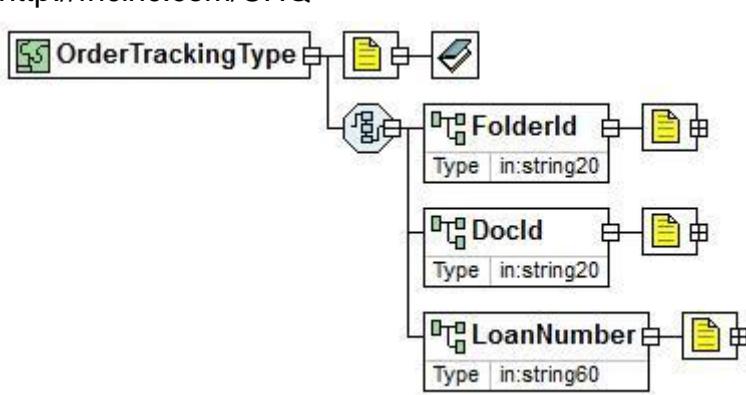
Namespace	http://fncinc.com/Integration.xsd
-----------	-----------------------------------

Diagram	
Type	ResponseHdrStatusType
Properties	content: simple
Facets	enumeration OK enumeration ApplicationError enumeration SystemError enumeration ReferentialIntegrityError

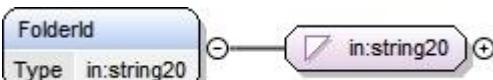
Element **ResponseHdrType/Message**

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

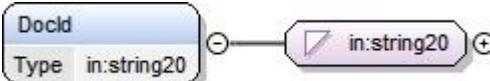
Element **CreateOrderRs/Tracking**

Namespace	http://fncinc.com/CHQ
Diagram	
Type	OrderTrackingType
Properties	content: complex minOccurs: 1 maxOccurs: 1
Instance	<Tracking> <FolderId>{1,1}</FolderId> <DocId>{1,1}</DocId> <LoanNumber>{1,1}</LoanNumber> </Tracking>

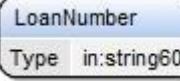
Element **OrderTrackingType/FolderId**

Namespace	http://fncinc.com/CHQ
Annotations	A tracking number used in CHQ.
Diagram	
Type	string20
Properties	content: simple minOccurs: 1
Facets	maxLength 20

Element OrderTrackingType/DocId

Namespace	http://fncinc.com/CHQ
Annotations	A tracking number used in CMS. This is the primary tracking number to be used when updating the LOS.
Diagram	
Type	string20
Properties	content: simple minOccurs: 1
Facets	maxLength 20

Element OrderTrackingType/LoanNumber

Namespace	http://fncinc.com/CHQ
Annotations	Loan Number; (Echoing back the received Loan Number)
Diagram	
Type	String60
Properties	content: simple minOccurs: 1

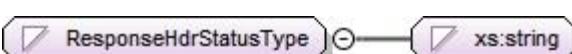
CMS will return a <CreateOrderRs> to the LOS. A sample XML looks like:

```

<?xml version="1.0" encoding="utf-8"?>
<CreateOrderRs xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header>
    <Code xmlns="http://fncinc.com/Integration.xsd">OK</Code>
  </Header>
  <Tracking>
    <FolderId>20080807-1111</FolderId>
    <DocId>20080807-1111-1</DocId>
    <LoanNumber>1323232132132</LoanNumber>
  </Tracking>
</CreateOrderRs>

```

Simple Type ResponseHdrStatusType

Namespace	http://fncinc.com/Integration.xsd
Annotations	OK: This is a positive acknowledge. The order has been created in CMS without error, and the tracking information is included in the returned XML. Application Error: The order has not been created in CMS. The error is rooted in the XML. Errors include, but are not limited to the following: 1. XML is not well formed 2. XML contains invalid data The ordering (calling) system should correct the XML data before sending to CMS again. SystemError: The order has not been created in CMS. However, the error is not caused by the XML, but is system related, such as backend database server is not available. The ordering (calling) system can resend the XML to CMS at a later time.
Diagram	

Type	restriction of xs:string
Facets	enumeration OK enumeration ApplicationError enumeration SystemError enumeration ReferentialIntegrityError
Used by	Element ResponseHdrType/Code

The <Code> node specifies the result from the enumeration defined by ResponseHdrStatusType.

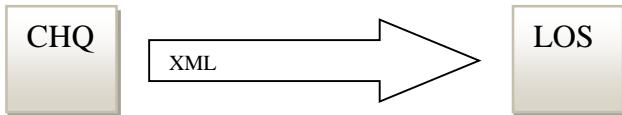
```

<xs:simpleType name="ResponseHdrStatusType">
  <xs:restriction base="xs:string">
    <xs:enumeration value="OK" />
    <xs:enumeration value="ApplicationError" />
    <xs:enumeration value="SystemError" />
    <xs:enumeration value="ReferentialIntegrityError" />
  </xs:restriction>
</xs:simpleType>

```

Sample XML:

:: Create Order from CMS



The order process starts from CMS post order XML to LOS

The Ordering Process originates with the creation of an order placed in CMS. The order is transferred from CMS and initiates a request to “Create Order” in the LOS.

Note: If orders will not be initiated within CMS this section is not a requirement.

Actors

CMS This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.

Client System System responsible for data management and originating orders

Preconditions – URL for Client system is completed in CMS

Post Conditions – Order exists in Client System and CMS.

► Main Scenario

1. Order is created in CMS.
2. CMS sends Order Request XML to Client System.
3. Client System receives and validates XML.
4. Client System sends response to communicate successful receipt of XML.

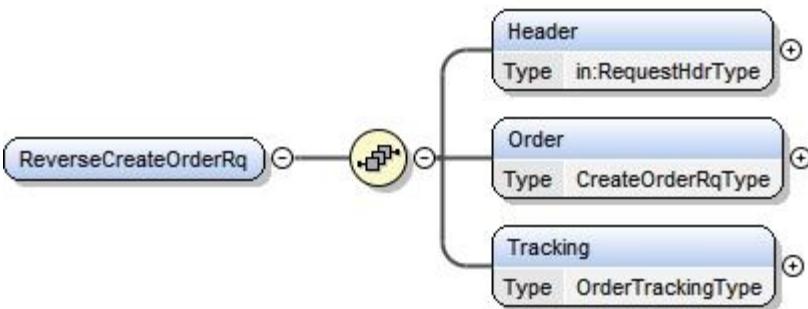
5. Client System stores and processes order.
6. Client System records successful completion of event.

► Alternate Scenarios

1. Can't connect to LOS – System Error
2. LOS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. LOS sends a failure acknowledgement – an application error occurred.
4. LOS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

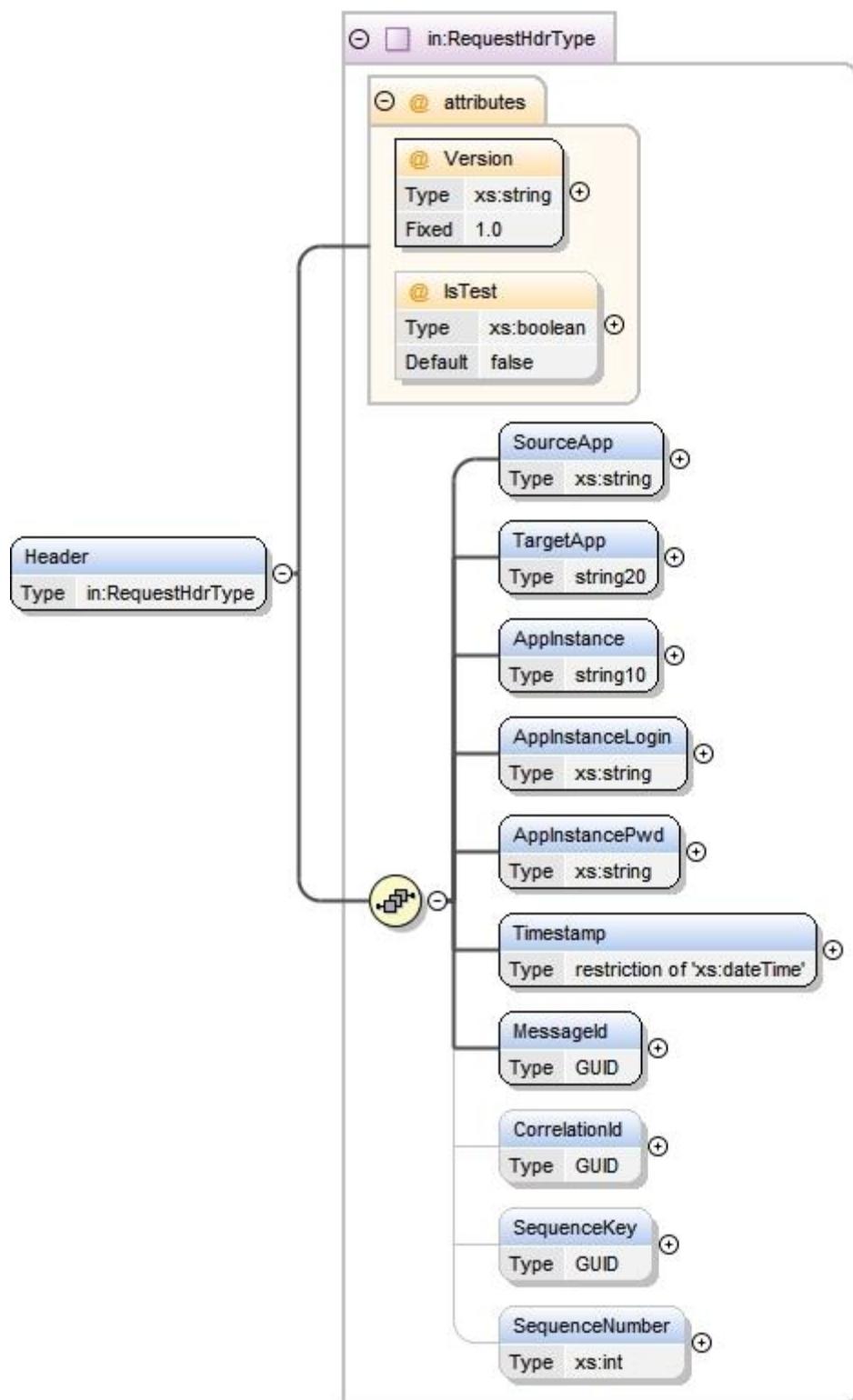
XML Structure Overview

Element ReverseCreateOrderRq

Namespace	http://fncinc.com/CHQ
Annotations	<p>The Ordering Process originates with the creation of an order placed in CMS. The order is transferred from CMS and initiates a request to "Create Order" in the LOS.</p> <p>Note: If orders will not be initiated within CMS this section is not a requirement.</p>
Diagram	 <pre> classDiagram class ReverseCreateOrderRq { <<Header>> <<Order>> <<Tracking>> } class Header { <<in:RequestHdrType>> } class Order { <<CreateOrderRqType>> } class Tracking { <<OrderTrackingType>> } ReverseCreateOrderRq "0..1" *-- "1..1" Header ReverseCreateOrderRq "0..1" *-- "1..1" Order ReverseCreateOrderRq "0..1" *-- "1..1" Tracking </pre>
Properties	content: complex
Model	Header , Order , Tracking
Children	Header, Order, Tracking
Instance	<pre> <ReverseCreateOrderRq> <Header IsTest="false" Version="1.0">{1,1}</Header> <Order>{1,1}</Order> <Tracking>{1,1}</Tracking> </ReverseCreateOrderRq> </pre>

Element ReverseCreateOrderRq/Header

Namespace	http://fncinc.com/CHQ
Annotations	SourceApp = CMS TargetApp = LOS

Diagram


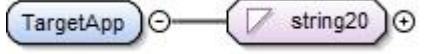
Type	RequestHdrType
Properties	content: complex
Model	SourceApp , TargetApp , ApplInstance , ApplInstanceLogin , ApplInstancePwd , Timestamp , Messageld , CorrelationId{0,1} , SequenceKey{0,1} , SequenceNumber{0,1}
Children	ApplInstance, ApplInstanceLogin, ApplInstancePwd, CorrelationId, Messageld, SequenceKey, SequenceNumber, SourceApp, TargetApp, Timestamp
Instance	<pre> <Header IsTest="false" Version="1.0"> <SourceApp>{1,1}</SourceApp> <TargetApp>{1,1}</TargetApp> <ApplInstance>{1,1}</ApplInstance> <ApplInstanceLogin>{1,1}</ApplInstanceLogin> <ApplInstancePwd>{1,1}</ApplInstancePwd> <Timestamp>{1,1}</Timestamp> <Messageld>{1,1}</Messageld> <CorrelationId>{0,1}</CorrelationId> <SequenceKey>{0,1}</SequenceKey> </pre>

	<SequenceNumber>{0,1}</SequenceNumber> </Header>																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>IsTest</td><td>xs:boolean</td><td></td><td>false</td><td>optional</td><td>Not currently used; For development team to utilize in a QA-like environment.</td></tr> <tr> <td>Version</td><td>xs:string</td><td>1.0</td><td></td><td>required</td><td>Based on schema</td></tr> </tbody> </table>						QName	Type	Fixed	Default	Use	Annotation	IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.	Version	xs:string	1.0		required	Based on schema
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IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.																			
Version	xs:string	1.0		required	Based on schema																			

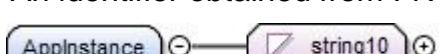
Element Header/SourceApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The name of the system sending message
Diagram	
Type	xs:string
Properties	content: simple

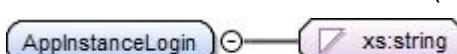
Element Header/TargetApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The Name of the system receiving the message
Diagram	
Type	string20
Properties	content: simple
Facets	maxLength 20

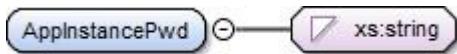
Element Header/AppInstance

Namespace	http://fncinc.com/Integration.xsd
Annotations	An identifier obtained from FNC
Diagram	
Type	string10
Properties	content: simple
Facets	maxLength 10

Element Header/AppInstanceLogin

Namespace	http://fncinc.com/Integration.xsd
Annotations	User name for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element Header/AppInstancePwd

Namespace	http://fncinc.com/Integration.xsd
Annotations	Password for authentication (managed in CHQ)
Diagram	
Type	xs:string

Properties	content: simple
------------	-----------------

Element Header/Timestamp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The timestamp from sending system Formatting: ISO8601; sql type 126; yyyy-mm-ddThh:mi:ss.mmm (no spaces)
Diagram	
Type	xs:dateTime
Properties	content: simple

Element Header/Messageld

Namespace	http://fncinc.com/Integration.xsd
Annotations	A unique identifier for the XML. Each unique message must have a unique Messageld.
Diagram	
Type	GUID
Properties	content: simple
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

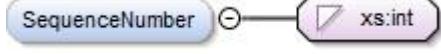
Element Header/CorrelationId

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element Header/SequenceKey

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

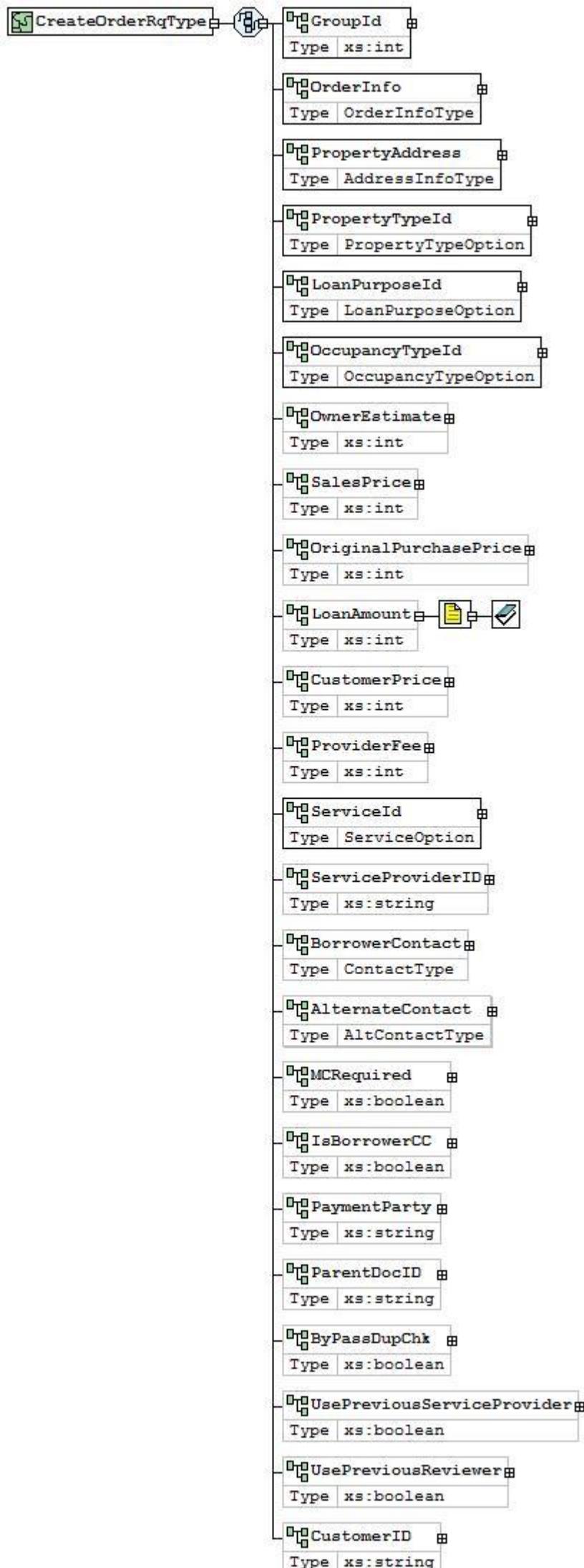
Element Header/SequenceNumber

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	xs:int
Properties	content: simple minOccurs: 0

Order Node**Element ReverseCreateOrderRq/Order**

Namespace http://fncinc.com/CHQ

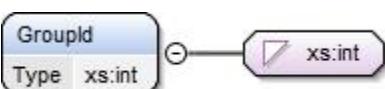
Diagram



Type CreateOrderRqType

Properties	content: complex
Instance	<pre> <Order> <GroupId>{1,1}</GroupId> <OrderInfo>{1,1}</OrderInfo> <PropertyAddress>{1,1}</PropertyAddress> <PropertyTypeId>{1,1}</PropertyTypeId> <LoanPurposeId>{1,1}</LoanPurposeId> <OccupancyTypeId>{1,1}</OccupancyTypeId> <OwnerEstimate>{0,1}</OwnerEstimate> <SalesPrice>{0,1}</SalesPrice> <OriginalPurchasePrice>{0,1}</OriginalPurchasePrice> <LoanAmount>{0,1}</LoanAmount> <CustomerPrice>{0,1}</CustomerPrice> <ProviderFee>{0,1}</ProviderFee> <ServiceId>{1,1}</ServiceId> <ServiceProviderID>{0,1}</ServiceProviderID> <BorrowerContact>{0,1}</BorrowerContact> <AlternateContact>{0,1}</AlternateContact> <MCRequired>{0,1}</MCRequired> <IsBorrowerCC>{0,1}</IsBorrowerCC> <PaymentParty>{0,1}</PaymentParty> <ParentDocID>{0,1}</ParentDocID> <ByPassDupChk>{0,1}</ByPassDupChk> <UsePreviousServiceProvider>{0,1}</UsePreviousServiceProvider> <CustomerID>{0,1}</CustomerID> </Order></pre>

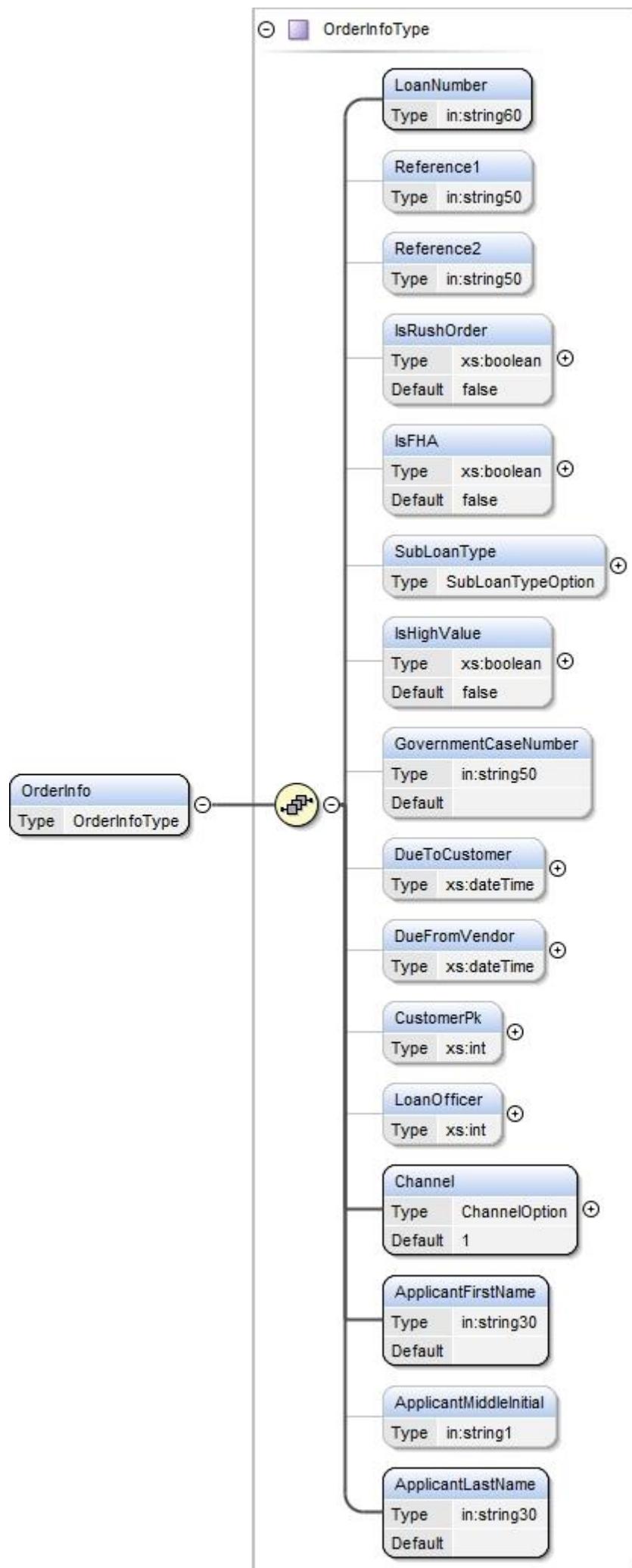
Element Order/GroupId

Namespace	http://fncinc.com/CHQ						
Annotations	A Unique Identifier (PK) for the Group (within the CHQ Client's organization) that is associated with or responsible for this order. The full list of PKs for all client groups will be provided to the client by FNC.						
Diagram							
Type	xs:int						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	1	maxOccurs:	1
content:	simple						
minOccurs:	1						
maxOccurs:	1						

Element Order/OrderInfo

Namespace	http://fncinc.com/CHQ
Annotations	Includes information related to the order, such as Loan Number

Diagram



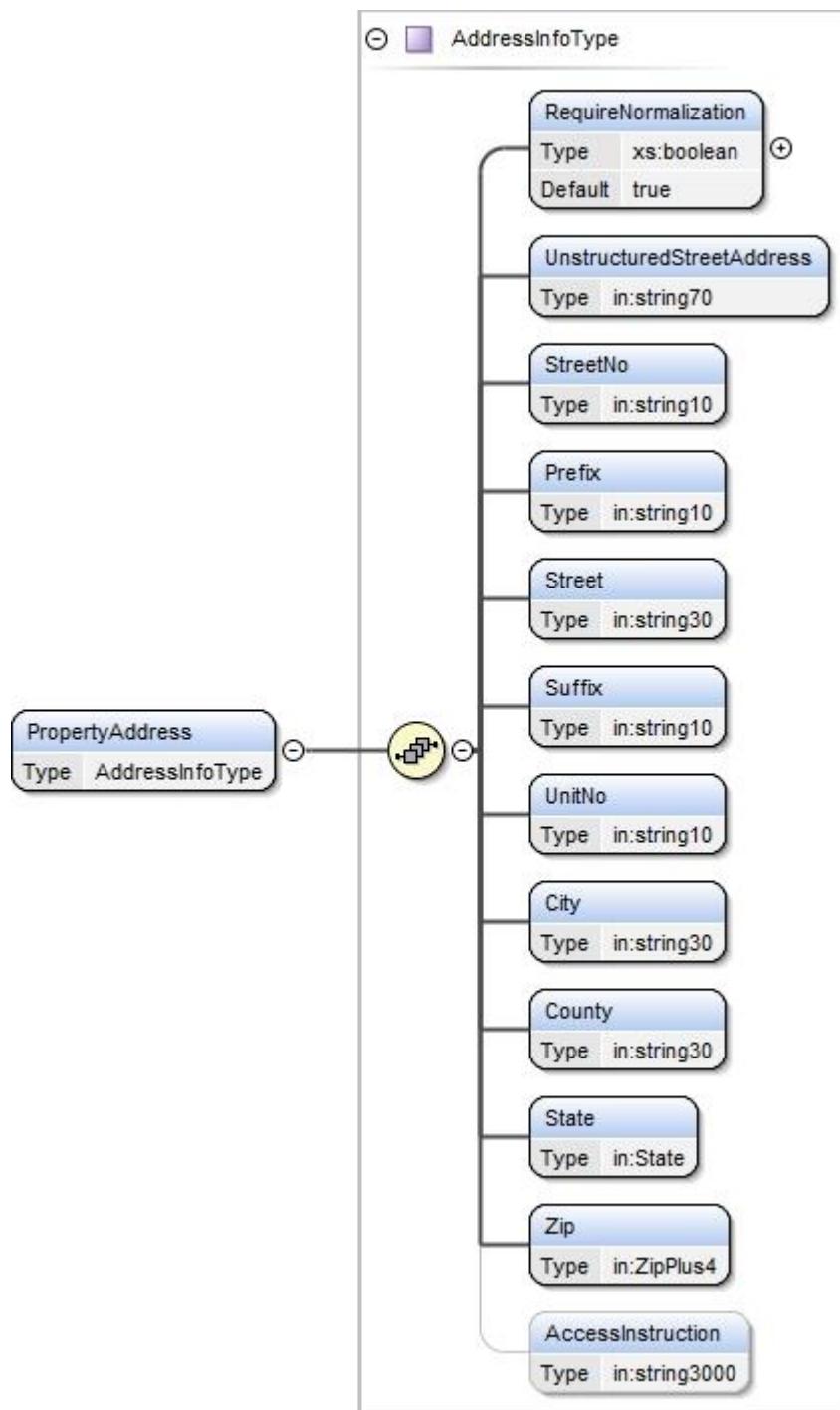
Type OrderInfoType

Properties content: complex
 minOccurs: 1

	maxOccurs: 1
Model	LoanNumber , Reference1{0,1} , Reference2{0,1} , IsRushOrder{0,1} , IsFHA{0,1} , SubLoanType{0,1} , IsHighValue{0,1} , GovernmentCaseNumber{0,1} , DueToCustomer{0,1} , DueFromVendor{0,1} , CustomerPk{0,1} , LoanOfficer{0,1} , Channel , ApplicantFirstName , ApplicantMiddleInitial{0,1} , ApplicantLastName
Children	ApplicantFirstName, ApplicantLastName, ApplicantMiddleInitial, Channel, CustomerPk, DueFromVendor, DueToCustomer, GovernmentCaseNumber, IsFHA, IsHighValue, IsRushOrder, LoanNumber, LoanOfficer, Reference1, Reference2, SubLoanType
Instance	<pre><OrderInfo xmlns="http://fncinc.com/CHQ"> <LoanNumber>{1,1}</LoanNumber> <Reference1>{0,1}</Reference1> <Reference2>{0,1}</Reference2> <IsRushOrder>{0,1}</IsRushOrder> <IsFHA>{0,1}</IsFHA> <SubLoanType>{0,1}</SubLoanType> <IsHighValue>{0,1}</IsHighValue> <GovernmentCaseNumber>{0,1}</GovernmentCaseNumber> <DueToCustomer>{0,1}</DueToCustomer> <DueFromVendor>{0,1}</DueFromVendor> <CustomerPk>{0,1}</CustomerPk> <LoanOfficer>{0,1}</LoanOfficer> <Channel>{1,1}</Channel> <ApplicantFirstName>{1,1}</ApplicantFirstName> <ApplicantMiddleInitial>{0,1}</ApplicantMiddleInitial> <ApplicantLastName>{1,1}</ApplicantLastName> </OrderInfo></pre>

Element Order/PropertyAddress

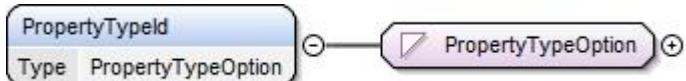
Namespace	http://fncinc.com/CHQ
Annotations	Includes information related to the Property Address, such as Street # and Prefix

Diagram


Type	AddressInfoType						
Properties	<table border="1"> <tr> <td>content:</td><td>complex</td></tr> <tr> <td>minOccurs:</td><td>1</td></tr> <tr> <td>maxOccurs:</td><td>1</td></tr> </table>	content:	complex	minOccurs:	1	maxOccurs:	1
content:	complex						
minOccurs:	1						
maxOccurs:	1						
Model	RequireNormalization , UnstructuredStreetAddress , StreetNo , Prefix , Street , Suffix , UnitNo , City , County , State , Zip , AccessInstruction{0,1}						
Children	AccessInstruction, City, County, Prefix, RequireNormalization, State, Street, StreetNo, Suffix, UnitNo, UnstructuredStreetAddress, Zip						
Instance	<pre><PropertyAddress> <RequireNormalization>{1,1}</RequireNormalization> <UnstructuredStreetAddress>{1,1}</UnstructuredStreetAddress> <StreetNo>{1,1}</StreetNo> <Prefix>{1,1}</Prefix> <Street>{1,1}</Street> <Suffix>{1,1}</Suffix> <UnitNo>{1,1}</UnitNo> <City>{1,1}</City> <County>{1,1}</County> <State>{1,1}</State> <Zip>{1,1}</Zip></pre>						

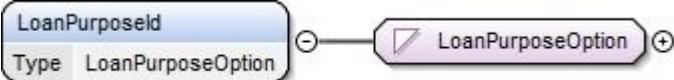
<AccessInstruction>{0,1}</AccessInstruction>
 </PropertyAddress>

Element Order/PropertyTypeId

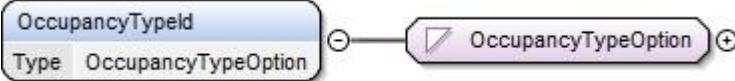
Namespace	http://fncinc.com/CHQ																																																																																						
Annotation	Type of property (Examples: Condo Hotel, Condominium, SFR Attached) Enumeration details contained in PropertyTypeOption																																																																																						
Diagram	 <pre> classDiagram class PropertyTypeId { <<Type>> <<PropertyTypeOption>> } class PropertyTypeOption { <<PropertyTypeOption>> } PropertyTypeId "1" -- "1" PropertyTypeOption </pre>																																																																																						
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VACNT	Vacant Land
WRHS	Warehouse - Office area less than 10%

Element Order/LoanPurposeId

Namespace	http://fncinc.com/CHQ																																																								
Annotations	Purpose for the Loan (Examples: Purchase, Refinance) Enumeration details contained in LoanPurposeOption																																																								
Diagram																																																									
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REOLS	REO Loss-Share																																																								
RMon	Routine Monitoring																																																								
SBULN	Small Business																																																								
Work	Workout																																																								

Element Order/OccupancyTypeld

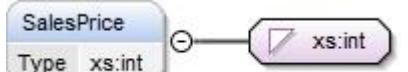
Namespace	http://fncinc.com/CHQ						
Annotations	Property's occupancy type (Examples: Investor, Primary Residence) Enumeration details contained in OccupancyTypeOption						
Diagram							
Type	OccupancyTypeOption						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	1	maxOccurs:	1
content:	simple						
minOccurs:	1						
maxOccurs:	1						

Facets	enumeration INV
	enumeration OTHER
	enumeration PR
	enumeration SH
	enumeration VAC

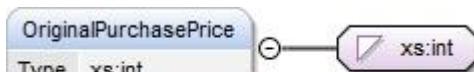
Element Order/OwnerEstimate

Namespace	http://fncinc.com/CHQ						
Annotations	Owner's Estimate of value of the property						
Diagram							
Type	xs:int						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						

Element Order/SalesPrice

Namespace	http://fncinc.com/CHQ						
Annotations	Sales Price for the property						
Diagram							
Type	xs:int						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
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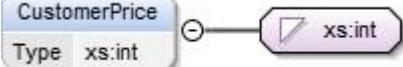
Element Order/OriginalPurchasePrice

Namespace	http://fncinc.com/CHQ						
Annotations	Original Purchase Price of the Property						
Diagram							
Type	xs:int						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						

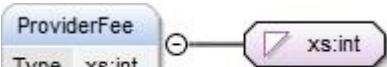
Element Order/LoanAmount

Namespace	http://fncinc.com/CHQ						
Annotations	Requested Loan Amount						
Diagram							
Type	xs:int						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						

Element Order/CustomerPrice

Namespace	http://fncinc.com/CHQ						
Annotations	Fee CHQ client is charging its customer to fulfill the loan request (if applicable)						
Diagram	 <pre> classDiagram class CustomerPrice { <<xs:int>> } CustomerPrice < -- xs:int </pre>						
Type	xs:int						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						

Element Order/ProviderFee

Namespace	http://fncinc.com/CHQ						
Annotations	Fee CHQ client will pay the Service Provider to fulfill service requested						
Diagram	 <pre> classDiagram class ProviderFee { <<xs:int>> } ProviderFee < -- xs:int </pre>						
Type	xs:int						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
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maxOccurs:	1						

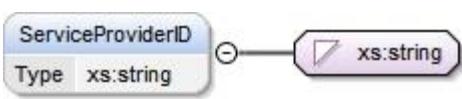
Element Order/ServiceId

Namespace	http://fncinc.com/CHQ																												
Annotations	Enumeration details contained in ServiceOption																												
Diagram	 <pre> classDiagram class ServiceId { <<ServiceOption>> } ServiceId < -- ServiceOption </pre>																												
Type	ServiceOption																												
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	1	maxOccurs:	1																						
content:	simple																												
minOccurs:	1																												
maxOccurs:	1																												
Facets	<table border="1"> <tr> <td>enumeration</td> <td>1</td> </tr> <tr> <td>enumeration</td> <td>2</td> </tr> <tr> <td>enumeration</td> <td>3</td> </tr> <tr> <td>enumeration</td> <td>4</td> </tr> <tr> <td>enumeration</td> <td>5</td> </tr> <tr> <td>enumeration</td> <td>6</td> </tr> <tr> <td>enumeration</td> <td>7</td> </tr> <tr> <td>enumeration</td> <td>8</td> </tr> <tr> <td>enumeration</td> <td>9</td> </tr> <tr> <td>enumeration</td> <td>10</td> </tr> <tr> <td>enumeration</td> <td>11</td> </tr> <tr> <td>enumeration</td> <td>12</td> </tr> <tr> <td>enumeration</td> <td>13</td> </tr> <tr> <td>enumeration</td> <td>14</td> </tr> </table>	enumeration	1	enumeration	2	enumeration	3	enumeration	4	enumeration	5	enumeration	6	enumeration	7	enumeration	8	enumeration	9	enumeration	10	enumeration	11	enumeration	12	enumeration	13	enumeration	14
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enumeration	59
enumeration	60

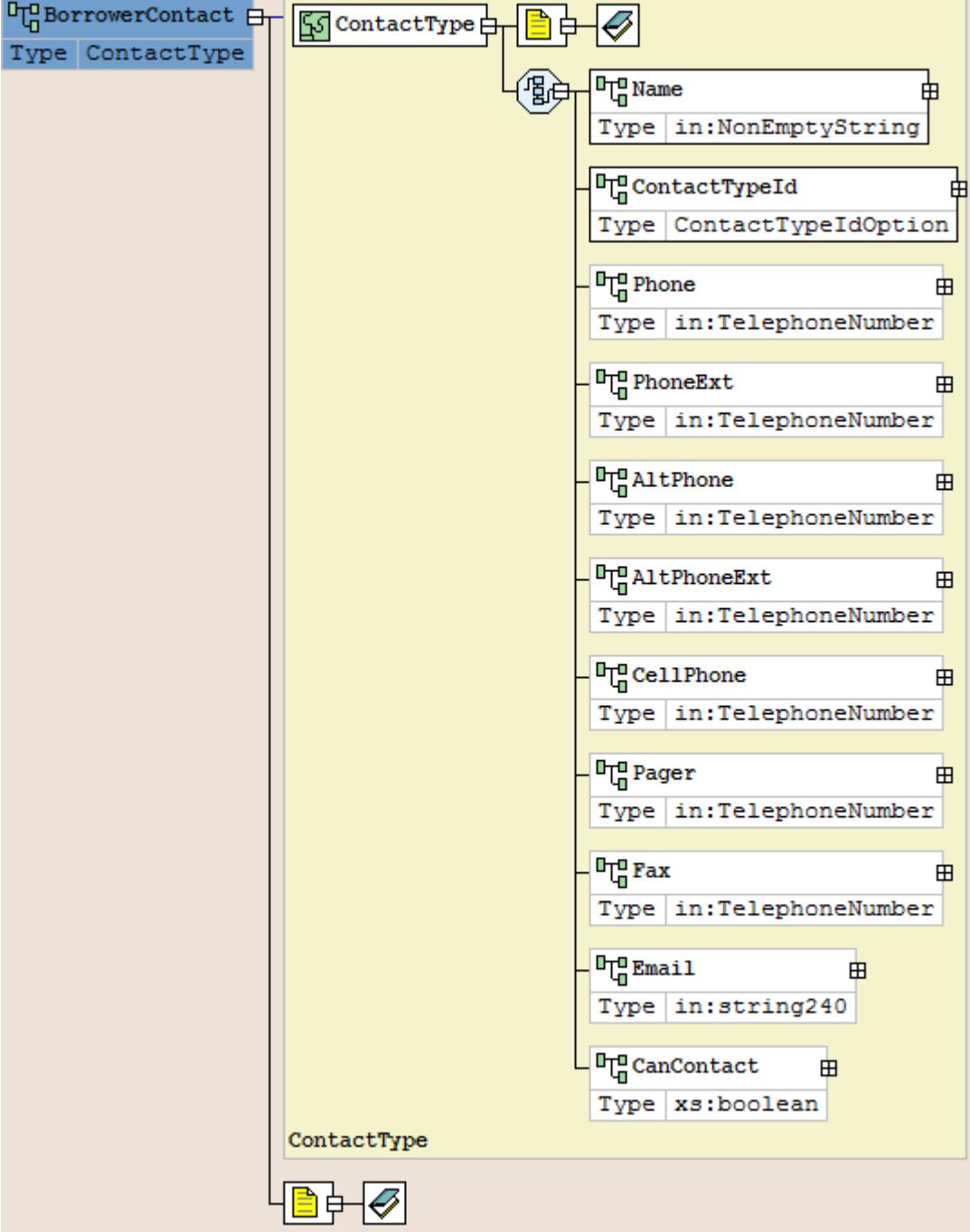
enumeration	61
enumeration	62
enumeration	63
enumeration	64
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enumeration	96
enumeration	99

Element Order/ServiceProviderID

Namespace	http://fncinc.com/CHQ
Annotations	Service Provider ID: PrsnPK generated in CMS.Net system and associated with the service provider
Diagram	 <pre> classDiagram class ServiceProviderID { <<xs:string>> } </pre>
Type	xs:string
Properties	content: simple

minOccurs: 0
 maxOccurs: 1

Element Order/BorrowerContact

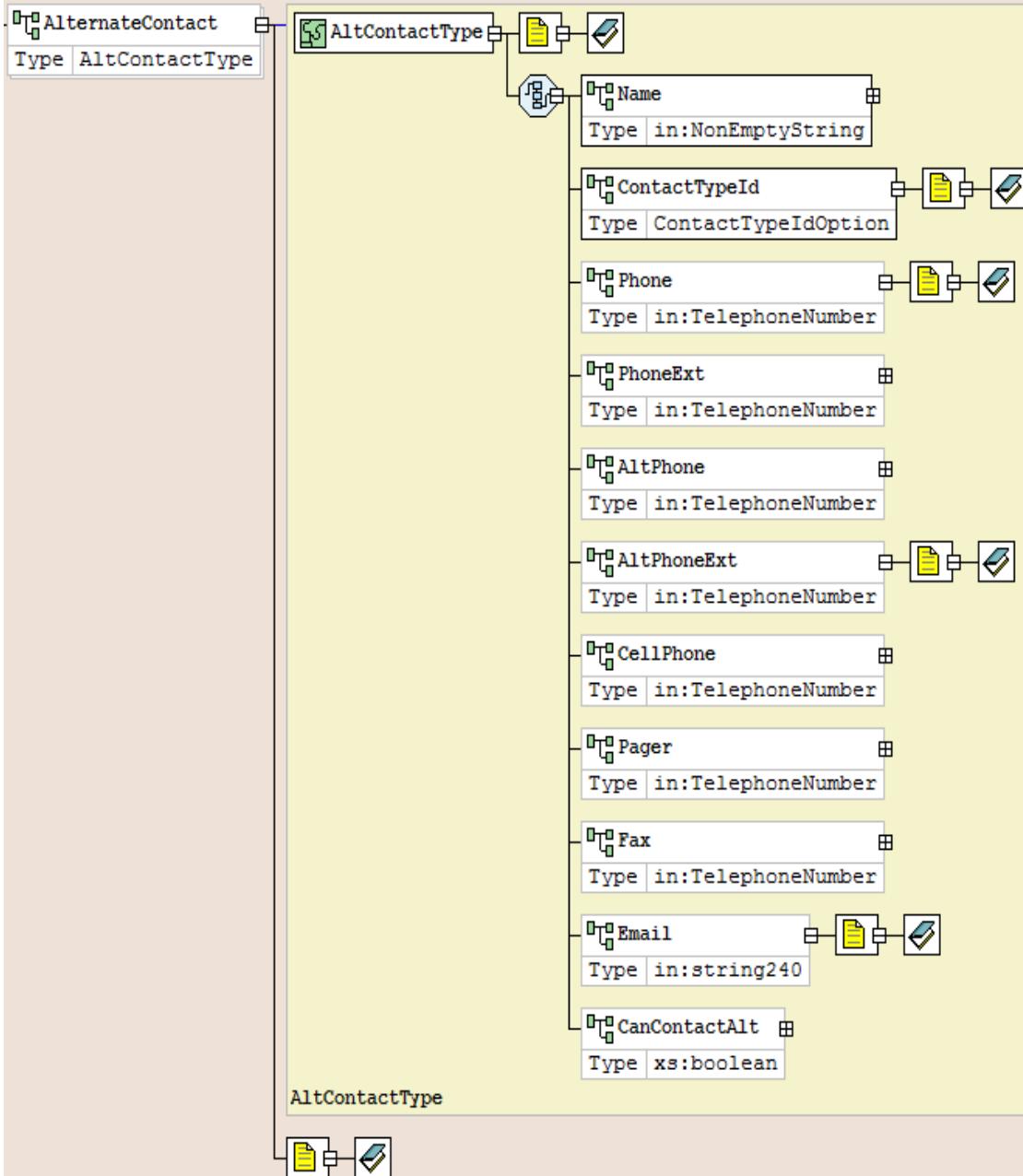
Namespace	http://fncinc.com/CHQ
Annotations	Includes Information related to the borrower, such as First Name and Last Name
Diagram	 <pre> classDiagram class BorrowerContact { <<Order/BorrowerContact>> } class ContactType { <<ContactType>> Name : in:NonEmptyString ContactTypeId : ContactTypeIdOption Phone : in:TelephoneNumber PhoneExt : in:TelephoneNumber AltPhone : in:TelephoneNumber AltPhoneExt : in:TelephoneNumber CellPhone : in:TelephoneNumber Pager : in:TelephoneNumber Fax : in:TelephoneNumber Email : in:string240 CanContact : xs:boolean } BorrowerContact "1" -- "*" ContactType </pre>
Type	ContactType
Properties	content: complex minOccurs: 1
Model	Name , ContactTypeld , Phone{0,1} , PhoneExt{0,1} , AltPhone{0,1} , AltPhoneExt{0,1} , CellPhone{0,1} , Pager{0,1} , Fax{0,1} , Email{0,1}, CanContact{0,1}
Children	AltPhone, AltPhoneExt, CellPhone, ContactTypeld, Email, Fax, Name, Pager, Phone, PhoneExt, CanContact
Instance	<pre> <BorrowerContact> <Name>{1,1}</Name> <ContactTypeld>{1,1}</ContactTypeld> <Phone>{0,1}</Phone> </pre>

```

<PhoneExt>{0,1}</PhoneExt>
<AltPhone>{0,1}</AltPhone>
<AltPhoneExt>{0,1}</AltPhoneExt>
<CellPhone>{0,1}</CellPhone>
<Pager>{0,1}</Pager>
<Fax>{0,1}</Fax>
<Email>{0,1}</Email>
<CanContact>{0,1}</CanContact>
</BorrowerContact>

```

Element Order/AlternateContact

Namespace	http://fncinc.com/CHQ
Annotations	Includes Information related to the alternate contact, such as First Name and Last Name
Diagram	
Type	AltContactType
Properties	content: complex minOccurs: 1 maxOccurs unbounded
Model	Name , ContactTypeId , Phone{0,1} , PhoneExt{0,1} , AltPhone{0,1} , AltPhoneExt{0,1} , CellPhone{0,1} , Pager{0,1} , Fax{0,1} , Email{0,1} , CanContactAlt{0,1}

Children	AltPhone, AltPhoneExt, CellPhone, ContactTypeld, Email, Fax, Name, Pager, Phone, PhoneExt, CanContactAlt
Instance	<pre> <AlternateContact> <Name>{1,1}</Name> <ContactTypeld>{1,1}</ContactTypeld> <Phone>{0,1}</Phone> <PhoneExt>{0,1}</PhoneExt> <AltPhone>{0,1}</AltPhone> <AltPhoneExt>{0,1}</AltPhoneExt> <CellPhone>{0,1}</CellPhone> <Pager>{0,1}</Pager> <Fax>{0,1}</Fax> <Email>{0,1}</Email> <CanContactAlt>{0,1}</CanContactAlt> </AlternateContact></pre>

Element Order/MCRequired

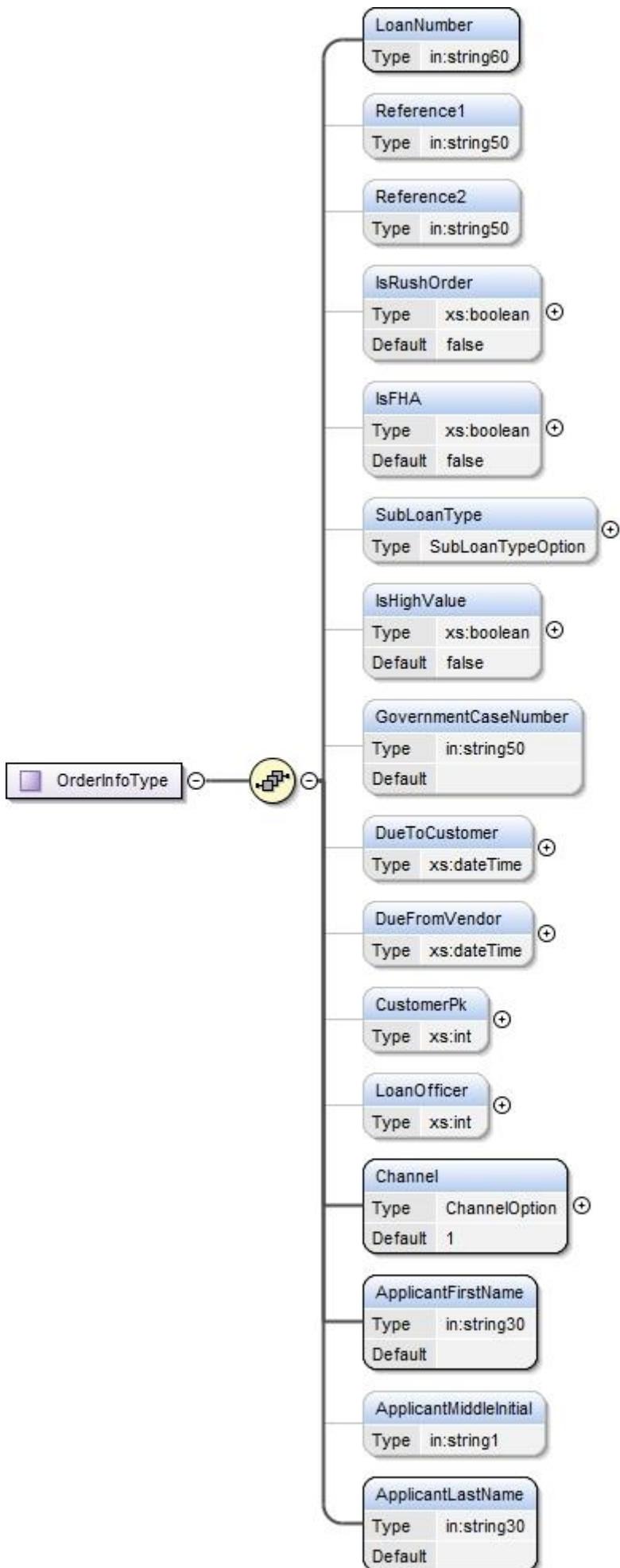
Namespace	http://fncinc.com/CHQ				
Annotations	Used to denote that the 1004MC addendum is required for this order. (Pass a value of 1 if MC is required. Otherwise, pass nothing or a 0.)				
Diagram					
Type	xs:boolean				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

OrderInfo Node Elements

Complex Type

 Namespace <http://fncinc.com/CHQ>

Diagram



Used by

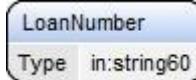
Element CreateOrderRq/OrderInfo

Model

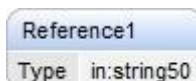
 LoanNumber , Reference1{0,1} , Reference2{0,1} , IsRushOrder{0,1} ,
 IsFHA{0,1} , SubLoanType{0,1} , IsHighValue{0,1} ,

	GovernmentCaseNumber{0,1} , DueToCustomer{0,1} , DueFromVendor{0,1} , CustomerPk{0,1} , LoanOfficer{0,1} , Channel , ApplicantFirstName , ApplicantMiddleInitial{0,1} , ApplicantLastName
Children	ApplicantFirstName, ApplicantLastName, ApplicantMiddleInitial, Channel, CustomerPk, DueFromVendor, DueToCustomer, GovernmentCaseNumber, IsFHA, IsHighValue, IsRushOrder, LoanNumber, LoanOfficer, Reference1, Reference2, SubLoanType

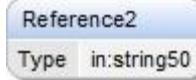
Element OrderInfo/LoanNumber

Namespace	http://fncinc.com/CHQ				
Annotations	Loan Number for order being placed				
Diagram					
Type	String60				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				

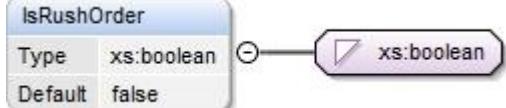
Element OrderInfo/Reference1

Namespace	http://fncinc.com/CHQ				
Annotations	Additional Order Identifier the client wishes to send with the order				
Diagram					
Type	string50				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

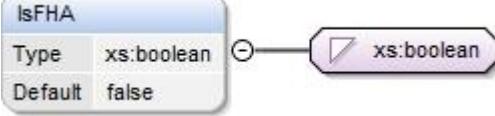
Element OrderInfo/Reference2

Namespace	http://fncinc.com/CHQ				
Annotations	Additional Order Identifier the client wishes to send with the order				
Diagram					
Type	string50				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

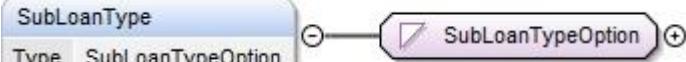
Element OrderInfo/IsRushOrder

Namespace	http://fncinc.com/CHQ						
Annotations	Used to denote an order is a Rush order. (Pass a value of 1 if it is a Rush order. Otherwise, pass nothing or a 0.)						
Diagram							
Type	xs:boolean						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>default:</td> <td>false</td> </tr> </table>	content:	simple	minOccurs:	0	default:	false
content:	simple						
minOccurs:	0						
default:	false						

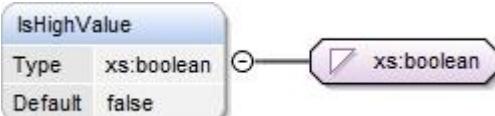
Element OrderInfo/IsFHA

Namespace	http://fncinc.com/CHQ						
Annotations	(Deprecated USE SubLoanType Instead) Used to denote an order is an FHA order. (Pass a value of 1 if it is an FHA order. Otherwise, pass nothing or a 0.)						
Diagram							
Type	xs:boolean						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>default:</td> <td>false</td> </tr> </table>	content:	simple	minOccurs:	0	default:	false
content:	simple						
minOccurs:	0						
default:	false						

Element OrderInfo/SubLoanType

Namespace	http://fncinc.com/CHQ								
Annotations	Use this for setting different types of government loan types. Depreciates IsFHA type. Use this node instead.								
Diagram									
Type	SubLoanTypeOption								
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0				
content:	simple								
minOccurs:	0								
Facets	<table border="1"> <tr> <td>enumeration</td> <td>203</td> </tr> <tr> <td>enumeration</td> <td>FHA</td> </tr> <tr> <td>enumeration</td> <td>USDA</td> </tr> <tr> <td>enumeration</td> <td>VA</td> </tr> </table>	enumeration	203	enumeration	FHA	enumeration	USDA	enumeration	VA
enumeration	203								
enumeration	FHA								
enumeration	USDA								
enumeration	VA								

Element OrderInfo/IsHighValue

Namespace	http://fncinc.com/CHQ						
Annotations	Used to denote a property as considered to be a high value property. (Pass a value of 1 if it is high value. Otherwise, pass nothing or a 0.)						
Diagram							
Type	xs:boolean						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>default:</td> <td>false</td> </tr> </table>	content:	simple	minOccurs:	0	default:	false
content:	simple						
minOccurs:	0						
default:	false						

Element OrderInfo/GovernmentCaseNumber

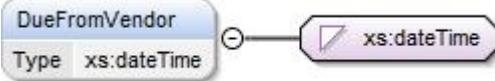
Namespace	http://fncinc.com/CHQ
Annotations	Case Number for FHA, etc orders
Diagram	
Type	string30

Properties	content: simple minOccurs: 0 default:
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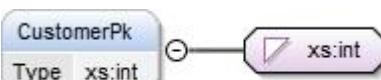
Element OrderInfo/DueToCustomer

Namespace	http://fncinc.com/CHQ
Annotations	Date the Order is due back to the Client's customer
Diagram	 <pre> classDiagram class DueToCustomer { <<xs:dateTime>> } DueToCustomer < -- xs:dateTime </pre>
Type	xs:dateTime
Properties	content: simple minOccurs: 0

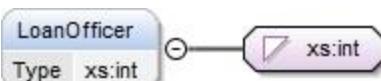
Element OrderInfo/DueFromVendor

Namespace	http://fncinc.com/CHQ
Annotations	Date the Order is due from the service provider (Appraiser/Broker). (NOTE: If this value is not passed, the date will be calculated based on the turn times maintained in CHQ.)
Diagram	 <pre> classDiagram class DueFromVendor { <<xs:dateTime>> } DueFromVendor < -- xs:dateTime </pre>
Type	xs:dateTime
Properties	content: simple minOccurs: 0

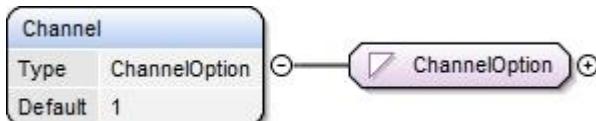
Element OrderInfo/CustomerPk

Namespace	http://fncinc.com/CHQ
Annotations	A Unique Identifier (PK) for the Customer associated with this order. The list of PKs for all customers will be provided to the client by FNC. If no customer is to be assigned to the order pass 0 (zero) as the value
Diagram	 <pre> classDiagram class CustomerPk { <<xs:int>> } CustomerPk < -- xs:int </pre>
Type	xs:int
Properties	content: simple minOccurs: 0

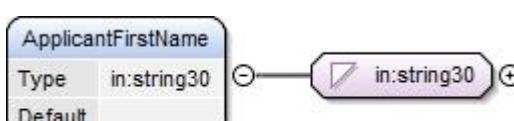
Element OrderInfo/LoanOfficer

Namespace	http://fncinc.com/CHQ
Annotations	A Unique Identifier (PK) for the Loan Officer associated with this order. The list of PKs for all Loan Officers will be provided to the client by FNC. If no Loan Officer is to be assigned to the order pass 0 (zero) as the value
Diagram	 <pre> classDiagram class LoanOfficer { <<xs:int>> } LoanOfficer < -- xs:int </pre>
Type	xs:int
Properties	content: simple minOccurs: 0

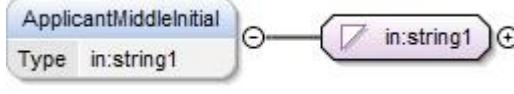
Element OrderInfo/Channel

Namespace	http://fncinc.com/CHQ																																
Annotations	Channel for which the order is placed (Example: Retail, Wholesale)																																
Diagram	 <pre> classDiagram class Channel { <<Channel>> <<Type>> ChannelOption <<Default>> 1 } class ChannelOption { <<ChannelOption>> } Channel "1..*" --> "1..*" ChannelOption </pre>																																
Type	ChannelOption																																
Properties	<table border="1"> <tr><td>content:</td><td>simple</td></tr> <tr><td>minOccurs:</td><td>1</td></tr> <tr><td>default:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1	default:	1																										
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minOccurs:	1																																
default:	1																																
Facets	<table border="1"> <tr><td>enumeration</td><td>1</td></tr> <tr><td>enumeration</td><td>2</td></tr> <tr><td>enumeration</td><td>4</td></tr> <tr><td>enumeration</td><td>5</td></tr> <tr><td>enumeration</td><td>6</td></tr> <tr><td>enumeration</td><td>7</td></tr> <tr><td>enumeration</td><td>8</td></tr> <tr><td>enumeration</td><td>9</td></tr> <tr><td>enumeration</td><td>10</td></tr> <tr><td>enumeration</td><td>11</td></tr> <tr><td>enumeration</td><td>16</td></tr> <tr><td>enumeration</td><td>20</td></tr> <tr><td>enumeration</td><td>21</td></tr> <tr><td>enumeration</td><td>22</td></tr> <tr><td>enumeration</td><td>23</td></tr> <tr><td>enumeration</td><td>25</td></tr> </table>	enumeration	1	enumeration	2	enumeration	4	enumeration	5	enumeration	6	enumeration	7	enumeration	8	enumeration	9	enumeration	10	enumeration	11	enumeration	16	enumeration	20	enumeration	21	enumeration	22	enumeration	23	enumeration	25
enumeration	1																																
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enumeration	25																																

Element OrderInfo/ApplicantFirstName

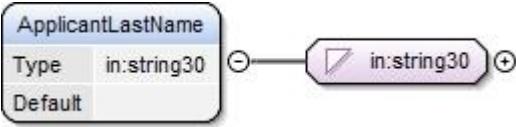
Namespace	http://fncinc.com/CHQ						
Annotations	Borrower's First Name						
Diagram	 <pre> classDiagram class ApplicantFirstName { <<ApplicantFirstName>> <<Type>> in:string30 <<Default>> } class in:string30 { <<in:string30>> } ApplicantFirstName "1..*" --> "1..*" in:string30 </pre>						
Type	string30						
Properties	<table border="1"> <tr><td>content:</td><td>simple</td></tr> <tr><td>minOccurs:</td><td>1</td></tr> <tr><td>default:</td><td></td></tr> </table>	content:	simple	minOccurs:	1	default:	
content:	simple						
minOccurs:	1						
default:							
Facets	maxLength 30						

Element OrderInfo/ApplicantMiddleInitial

Namespace	http://fncinc.com/CHQ
Annotations	Borrower's Middle Initial
Diagram	 <pre> classDiagram class ApplicantMiddleInitial { <<ApplicantMiddleInitial>> <<Type>> in:string1 <<Default>> } class in:string1 { <<in:string1>> } ApplicantMiddleInitial "1..*" --> "1..*" in:string1 </pre>
Type	string1

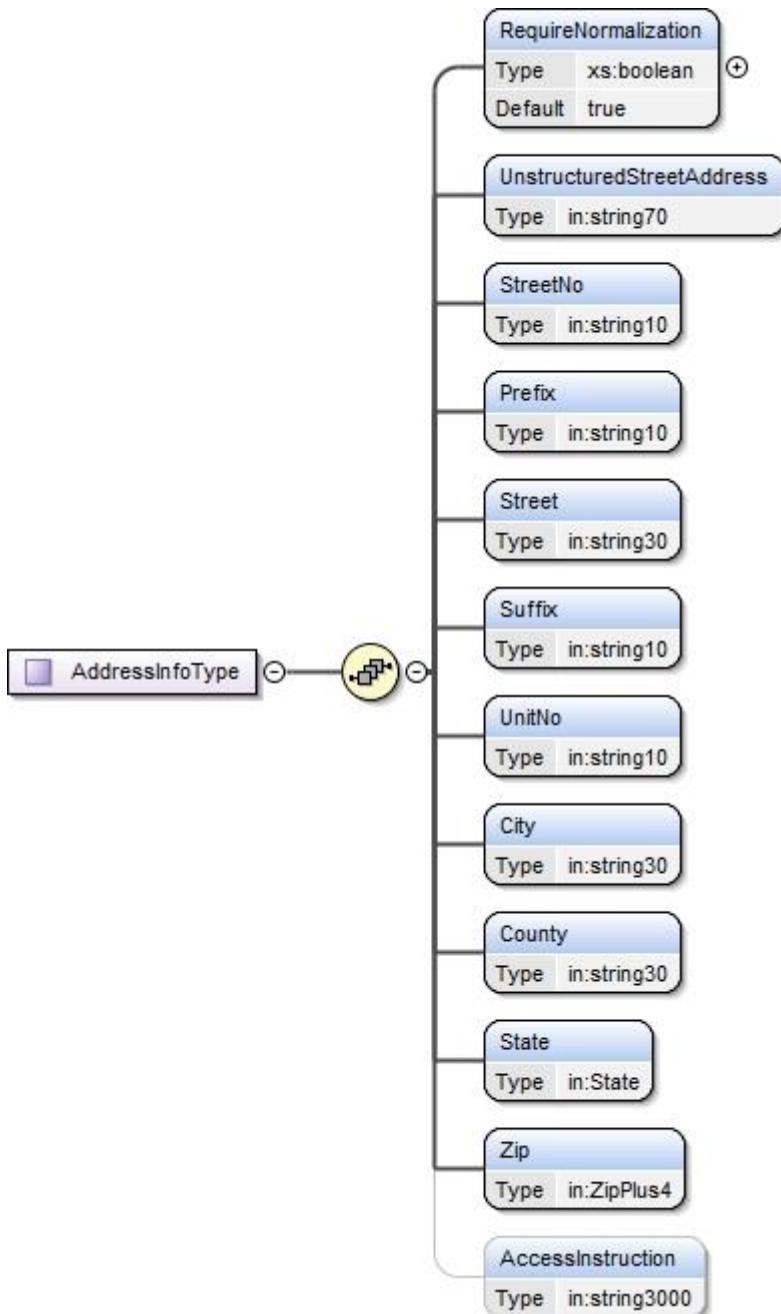
Properties	content: simple minOccurs: 0
Facets	maxLength 1

Element OrderInfo/ApplicantLastName

Namespace	http://fncinc.com/CHQ
Annotations	Borrower's Last Name
Diagram	 <pre> classDiagram class ApplicantLastName { <<Type in:string30>> <<Default>> } ApplicantLastName "1" --o "1" in:string30 </pre>
Type	string30
Properties	content: simple minOccurs: 1 default:
Facets	maxLength 30

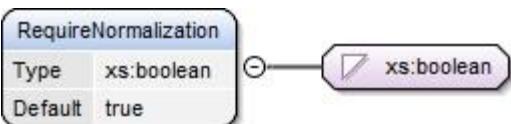
Property Address Node Elements
Complex Type AddressInfoType

Namespace	http://fncinc.com/CHQ
Annotations	When UnstructuredStreetAddress is present, FNC will use the unstructured data instead.

Diagram


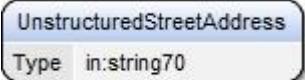
Used by	Element CreateOrderRqType/PropertyAddress
Model	RequireNormalization , UnstructuredStreetAddress , StreetNo , Prefix , Street , Suffix , UnitNo , City , County , State , Zip , AccessInstruction{0,1}
Children	AccessInstruction, City, County, Prefix, RequireNormalization, State, Street, StreetNo, Suffix, UnitNo, UnstructuredStreetAddress, Zip

Element [PropertyAddress/RequireNormalization](#)

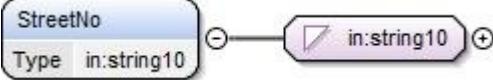
Namespace	http://fncinc.com/CHQ
Annotations	Used to denote if address requires normalization. If the address has been normalized and therefore parsed into separate fields below (StreetNo, Prefix, Street and Suffix), then RequireNormalization should be 0. If the address requires normalization and will be passed in one field (UnstructuredStreetAddress), then the value should be 1. If 1, CHQ will normalize the address and store in CHQ appropriately.
Diagram	
Type	boolean
Properties	content: simple minOccurs: 1

	default:	true
--	----------	------

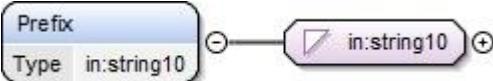
Element [PropertyAddress/UnstructuredStreetAddress](#)

Namespace	http://fncinc.com/CHQ	
Annotations	Pass Street Address in this field if normalization is required	
Diagram		
Type	string70	
Properties	content: simple minOccurs: 1	

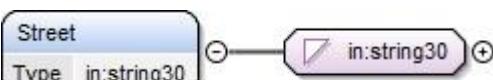
Element [PropertyAddress/StreetNo](#)

Namespace	http://fncinc.com/CHQ	
Annotations	Street No portion of Street Address	
Diagram		
Type	string10	
Properties	content: simple minOccurs: 1	
Facets	maxLength 10	

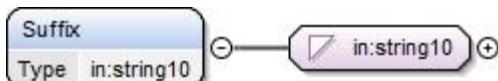
Element [PropertyAddress/Prefix](#)

Namespace	http://fncinc.com/CHQ	
Annotations	Prefix portion of Street Address	
Diagram		
Type	string10	
Properties	content: simple minOccurs: 1	
Facets	maxLength 10	

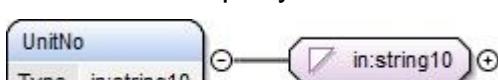
Element [PropertyAddress/Street](#)

Namespace	http://fncinc.com/CHQ	
Annotations	Street Name for Street Address	
Diagram		
Type	string30	
Properties	content: simple minOccurs: 1	
Facets	maxLength 30	

Element [PropertyAddress/Suffix](#)

Namespace	http://fncinc.com/CHQ
Annotations	Suffix for Street Address
Diagram	
Type	string10
Properties	content: simple minOccurs: 1
Facets	maxLength 10

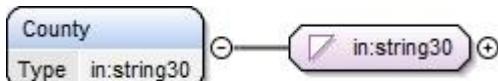
Element [PropertyAddress/UnitNo](#)

Namespace	http://fncinc.com/CHQ
Annotations	Unit No for Property
Diagram	
Type	string10
Properties	content: simple minOccurs: 1
Facets	maxLength 10

Element [PropertyAddress/City](#)

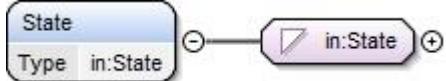
Namespace	http://fncinc.com/CHQ
Annotations	City for Property
Diagram	
Type	string30
Properties	content: simple minOccurs: 1

Element [PropertyAddress/County](#)

Namespace	http://fncinc.com/CHQ
Annotations	County for Property
Diagram	
Type	string30
Properties	content: simple minOccurs: 1
Facets	maxLength 30

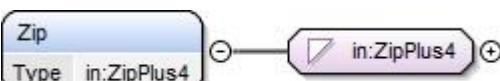
Element [PropertyAddress/State](#)

Namespace	http://fncinc.com/CHQ
Annotations	State for Property

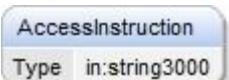
Diagram	
Type	State
Properties	<p>content: simple</p> <p>minOccurs: 1</p>
Facets	<p>enumeration AL</p> <p>enumeration AK</p> <p>enumeration AZ</p> <p>enumeration AR</p> <p>enumeration CA</p> <p>enumeration CO</p> <p>enumeration CT</p> <p>enumeration DE</p> <p>enumeration DC</p> <p>enumeration FL</p> <p>enumeration GA</p> <p>enumeration HI</p> <p>enumeration ID</p> <p>enumeration IL</p> <p>enumeration IN</p> <p>enumeration IA</p> <p>enumeration KS</p> <p>enumeration KY</p> <p>enumeration LA</p> <p>enumeration ME</p> <p>enumeration MD</p> <p>enumeration MA</p> <p>enumeration MI</p> <p>enumeration MN</p> <p>enumeration MS</p> <p>enumeration MO</p> <p>enumeration MT</p> <p>enumeration NE</p> <p>enumeration NV</p> <p>enumeration NH</p> <p>enumeration NJ</p> <p>enumeration NM</p> <p>enumeration NY</p> <p>enumeration NC</p> <p>enumeration ND</p> <p>enumeration OH</p> <p>enumeration OK</p> <p>enumeration OR</p> <p>enumeration PA</p> <p>enumeration RI</p>

enumeration	SC
enumeration	SD
enumeration	TN
enumeration	TX
enumeration	UT
enumeration	VT
enumeration	VA
enumeration	WA
enumeration	WV
enumeration	WI
enumeration	WY
enumeration	AS
enumeration	FM
enumeration	GU
enumeration	MH
enumeration	MP
enumeration	PW
enumeration	PR
enumeration	VI

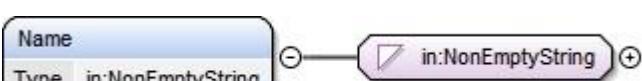
Element [PropertyAddress/Zip](#)

Namespace	http://fncinc.com/CHQ				
Annotations	Zip Code for Property				
Diagram					
Type	ZipPlus4				
Properties	<table border="1"> <tr><td>content:</td><td>simple</td></tr> <tr><td>minOccurs:</td><td>1</td></tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				

Element [PropertyAddress/AccessInstruction](#)

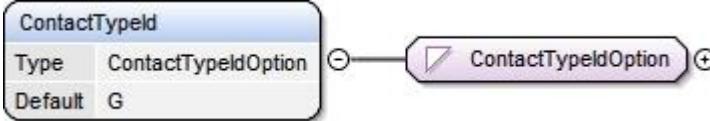
Namespace	http://fncinc.com/CHQ				
Annotations	Special Instructions to be communicated to the Service Provider (Appraiser/Broker)				
Diagram					
Type	string3000				
Properties	<table border="1"> <tr><td>content:</td><td>simple</td></tr> <tr><td>minOccurs:</td><td>0</td></tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Contact Type Node Elements
Element [BorrowerContact/Name](#)

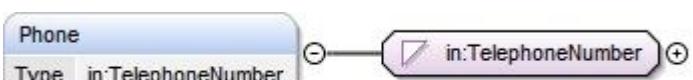
Namespace	http://fncinc.com/CHQ
Annotations	Contact's Full Name
Diagram	
Type	NonEmptyString

Properties	content:	simple
	minOccurs:	1
Facets	minLength	1

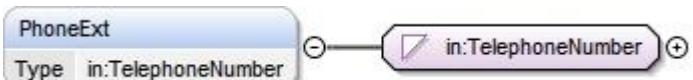
Element BorrowerContact/ContactTypeld

Namespace	http://fncinc.com/CHQ	
Annotations	Enumeration details contained in ContactTypeldOption	
Diagram		
Type	ContactTypeldOption	
Properties	content:	simple
	minOccurs:	1
	default:	G
Facets	Enumeration	Description
	B	Borrower
	BA	Buyer's Agent
	BK	Broker
	BU	Builder
	BY	Buyer
	C	Contact
	CB	Co-Borrower
	E	Entry
	G	General Contact
	L	Loan Officer
	LA	Listing Agent
	O	Owner
	S	Seller

Element BorrowerContact/Phone

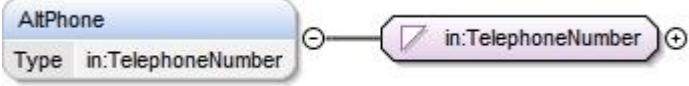
Namespace	http://fncinc.com/CHQ	
Annotations	Contact's Phone Number	
Diagram		
Type	TelephoneNumber	
Properties	content:	simple
	minOccurs:	0

Element BorrowerContact/PhoneExt

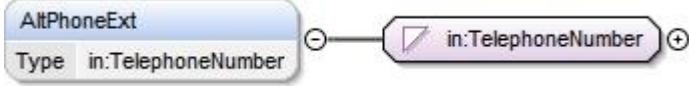
Namespace	http://fncinc.com/CHQ	
Annotations	Contact's Phone Extension	
Diagram		
Type	TelephoneNumber	
Properties	content:	simple
	minOccurs:	0

Element BorrowerContact/AltPhone

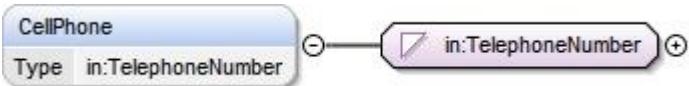
Namespace	http://fncinc.com/CHQ	
Annotations	Alternate Phone Number	

Diagram	
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

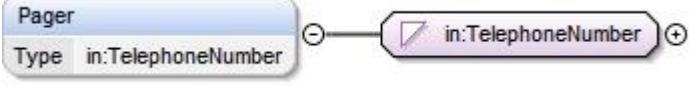
Element BorrowerContact/AltPhoneExt

Namespace	http://fncinc.com/CHQ
Annotations	Alternate Phone Number Extension
Diagram	
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

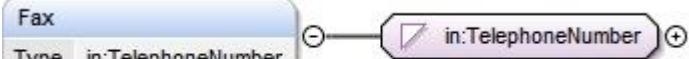
Element BorrowerContact/CellPhone

Namespace	http://fncinc.com/CHQ
Annotations	Cell Phone Number
Diagram	
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

Element BorrowerContact/Pager

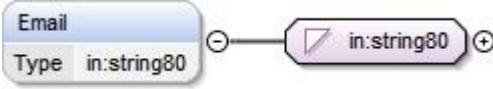
Namespace	http://fncinc.com/CHQ
Annotations	Pager
Diagram	
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

Element BorrowerContact/Fax

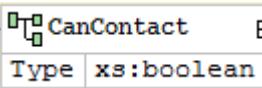
Namespace	http://fncinc.com/CHQ
Annotations	Fax Number
Diagram	
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

Element BorrowerContact/Email

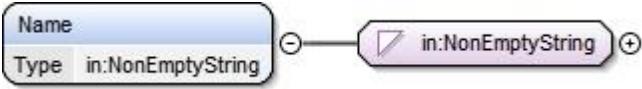
Namespace	http://fncinc.com/CHQ
Annotations	E-mail Address

Diagram	
Type	string80
Properties	content: Simple minOccurs: 0
Facets	maxLength 80

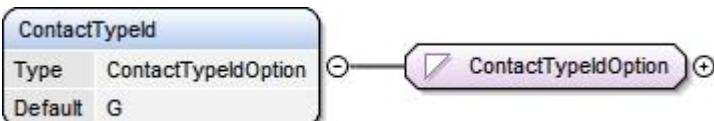
Element BorrowerContact/CanContact

Namespace	http://fncinc.com/CHQ
Annotations	Can be contacted
Diagram	
Type	Boolean
Properties	content: Simple minOccurs: 0 Default: False

Element AlternateContact/Name

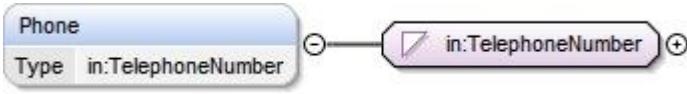
Namespace	http://fncinc.com/CHQ
Annotations	Contact's Full Name
Diagram	
Type	NonEmptyString
Properties	content: simple minOccurs: 1
Facets	minLength 1

Element AlternateContact/ContactTypeId

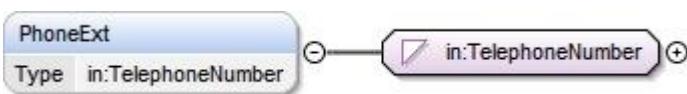
Namespace	http://fncinc.com/CHQ
Annotations	Enumeration details contained in ContactTypeIdOption
Diagram	
Type	ContactTypeIdOption
Properties	content: simple minOccurs: 1 default: G
Facets	Enumeration Description B Borrower BA Buyer's Agent BK Broker BU Builder BY Buyer C Contact CB Co-Borrower E Entry G General Contact L Loan Officer

	LA	Listing Agent
	O	Owner
	S	Seller

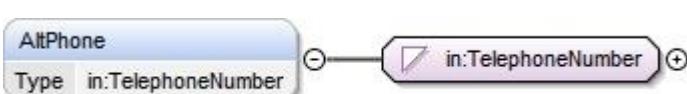
Element AlternateContact/Phone

Namespace	http://fncinc.com/CHQ
Annotations	Contact's Phone Number
Diagram	 <pre> graph LR Phone[Phone Type in:PhoneNumber] -- "0..1" --> inPhoneNumber[in:PhoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

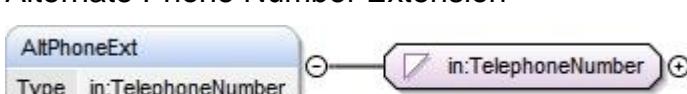
Element AlternateContact/PhoneExt

Namespace	http://fncinc.com/CHQ
Annotations	Contact's Phone Extension
Diagram	 <pre> graph LR PhoneExt[PhoneExt Type in:PhoneNumber] -- "0..1" --> inPhoneNumber[in:PhoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

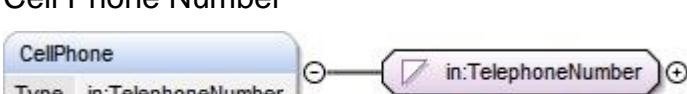
Element AlternateContact/AltPhone

Namespace	http://fncinc.com/CHQ
Annotations	Alternate Phone Number
Diagram	 <pre> graph LR AltPhone[AltPhone Type in:PhoneNumber] -- "0..1" --> inPhoneNumber[in:PhoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

Element AlternateContact/AltPhoneExt

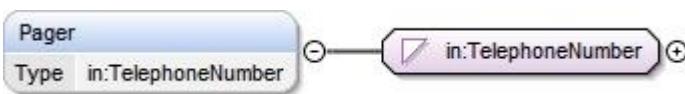
Namespace	http://fncinc.com/CHQ
Annotations	Alternate Phone Number Extension
Diagram	 <pre> graph LR AltPhoneExt[AltPhoneExt Type in:PhoneNumber] -- "0..1" --> inPhoneNumber[in:PhoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

Element AlternateContact/CellPhone

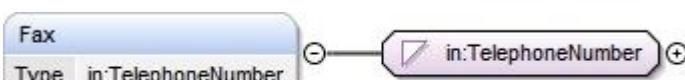
Namespace	http://fncinc.com/CHQ
Annotations	Cell Phone Number
Diagram	 <pre> graph LR CellPhone[CellPhone Type in:PhoneNumber] -- "0..1" --> inPhoneNumber[in:PhoneNumber] </pre>
Type	TelephoneNumber

Properties	content: simple minOccurs: 0
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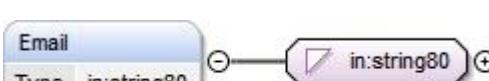
Element AlternateContact/Pager

Namespace	http://fncinc.com/CHQ
Annotations	Pager
Diagram	 <pre> graph LR Pager[Pager
Type in:TelephoneNumber] --> TelephoneNumber[in:TelephoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

Element AlternateContact/Fax

Namespace	http://fncinc.com/CHQ
Annotations	Fax Number
Diagram	 <pre> graph LR Fax[Fax
Type in:TelephoneNumber] --> TelephoneNumber[in:TelephoneNumber] </pre>
Type	TelephoneNumber
Properties	content: simple minOccurs: 0

Element AlternateContact/Email

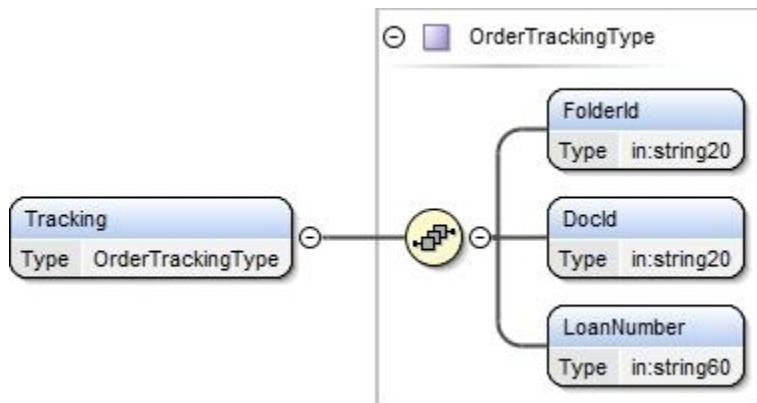
Namespace	http://fncinc.com/CHQ
Annotations	E-mail Address
Diagram	 <pre> graph LR Email[Email
Type in:string80] --> String80[in:string80] </pre>
Type	string80
Properties	content: Simple minOccurs: 0
Facets	maxLength 80

Element AlternateContact/CanContactAlt

Namespace	http://fncinc.com/CHQ
Annotations	Alt Contact can be contacted
Diagram	 <pre> graph LR CanContactAlt[CanContactAlt] --> Boolean[xs:boolean] </pre>
Type	boolean
Properties	content: Simple minOccurs: 0 Default: False

Tracking Node Elements
Element ReverseCreateOrderRq/Tracking

Namespace	http://fncinc.com/CHQ
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Diagram


Type	OrderTrackingType						
Properties	<table border="1"> <tr> <td>content:</td> <td>complex</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	complex	minOccurs:	1	maxOccurs:	1
content:	complex						
minOccurs:	1						
maxOccurs:	1						
Model	FolderId , DocId , LoanNumber						
Children	DocId, FolderId, LoanNumber						
Instance	<Tracking> <FolderId>{1,1}</FolderId> <DocId>{1,1}</DocId> <LoanNumber>{1,1}</LoanNumber> </Tracking>						

Sample XML

```

<?xml version="1.0" encoding="utf-8"?>
<ReverseCreateOrderRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header Version="1.0">
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">CHQ</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">LOS</TargetApp>
    <ApplInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</ApplInstance>
    <ApplInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</ApplInstanceLogin>
    <ApplInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123</ApplInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2013-04-03T08:05:02.4047382-07:00</Timestamp>
    <MessageId xmlns="http://fncinc.com/Integration.xsd">1d06ff3f-db1a-4b02-99ce-003aaeaa5682</MessageId>
  </Header>
  <Order>
    <GroupId>123</GroupId>
    <OrderInfo>
      <LoanNumber>2013041001</LoanNumber>
      <DueToCustomer>0001-01-01T00:00:00</DueToCustomer>
      <DueFromVendor>0001-01-01T00:00:00</DueFromVendor>
      <CustomerPk>730</CustomerPk>
      <Channel>9</Channel>
      <ApplicantFirstName>Jane</ApplicantFirstName>
      <ApplicantLastName>Smith</ApplicantLastName>
    </OrderInfo>
    <PropertyAddress>
      <RequireNormalization>false</RequireNormalization>
      <UnstructuredStreetAddress/>
      <StreetNo>7321</StreetNo>
      <Prefix>E</Prefix>
      <Street>22nd</Street>
      <Suffix>Street</Suffix>
      <UnitNo/>
      <City>INDIANAPOLIS</City>
      <County>MARION</County>
      <State>IN</State>
      <Zip>46219</Zip>
      <AccessInstruction>Knock first</AccessInstruction>
    </PropertyAddress>
    <PropertyTypeld>SFRD</PropertyTypeld>
    <LoanPurposeld>Other</LoanPurposeld>
    <OccupancyTypeld/>
    <Serviceld>58</Serviceld>
    <BorrowerContact>
      <Name>Jane Smith</Name>
      <ContactTypeld>B</ContactTypeld>
      <Phone>0000000000</Phone>
    </BorrowerContact>
  </Order>
</ReverseCreateOrderRq>
    
```

```

<AltPhone/>
</BorrowerContact>
<MCRequired>true</MCRequired>
</Order>
<Tracking>
    <FolderId>20120403-0622</FolderId>
    <DocId>20120403-0622-1</DocId>
    <LoanNumber>2013041001</LoanNumber>
</Tracking>
</ReverseCreateOrderRq>

```

Business and Processing Rules

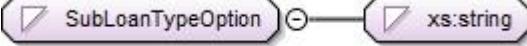
Strip Spaces and Special Characters from Phone and FAX Numbers

Only the 10 digits of the phone and fax number should be sent in the XML. Any spaces or special characters used for formatting should be stripped from the value before being used in the XML request.

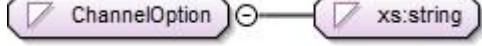
Map Client System Value to XML Enumeration

The following tables provide valid values to be passed for the denoted fields. Each table contains two columns (ID and Description). The ID should be passed in the CreateOrder XML.

Simple Type SubLoanTypeOption

Namespace	http://fncinc.com/CHQ
Annotations	203 203(k) FHA FHA USDA USDA VA VA
Diagram	
Type	restriction of xs:string
Facets	enumeration 203 enumeration FHA enumeration USDA enumeration VA
Used by	Element OrderInfoType/SubLoanType

Simple Type ChannelOption

Namespace	http://fncinc.com/CHQ
Annotations	1 Retail 2 Wholesale 4 Correspondent 5 Servicing 6 Foreclosure 7 Quality Control 8 Quality Assurance 9 REO 10 Modifications 11 Other 16 Acquisition 20 Commercial 21 Commercial/RIMS 22 CLC-Retail/Consumer 23 Loss Mitigation 25 Bankruptcy
Diagram	
Type	restriction of xs:string

Facets	enumeration	1
	enumeration	2
	enumeration	4
	enumeration	5
	enumeration	6
	enumeration	7
	enumeration	8
	enumeration	9
	enumeration	10
	enumeration	11
	enumeration	16
	enumeration	20
	enumeration	21
	enumeration	22
	enumeration	23
	enumeration	25

Used by Element OrderInfoType/Channel

Simple Type **.PropertyTypeOption**

Super-types: [xs:string](#) < **.PropertyTypeOption** (by restriction)

Sub-types: None

Name	.PropertyTypeOption	
Content	<ul style="list-style-type: none"> Base XSD Type: string value comes from list: {" 'CNDHO' 'CONDO' 'COOP' 'DPLX2' 'DPLX3' 'DPLX4' 'HIRIS' 'LOT' 'LORIS' 'MANU' 'MOBLE' 'PUD' 'SFR' 'SFRD' 'VACNT' 'ACCM2' 'ACAG1' 'ACAG2' 'ACAP5' 'LOTCM' 'LOTIN' 'APT51' 'OFFLO' 'OFFHI' 'RESTR' 'REREG' 'RESNG' 'WRHS' 'OWRHS' 'CHRCH' 'HOSPL' 'GASST' 'CRWSH' 'HOTEL' 'MOBIL' 'FARM' 'HFFAC' 'BOFAC' 'LWRHS' 'ACRE5' 'ACRE6' 'LOTRE' 'LOTMO'} 	
Documentation	Enumeration	Description
	ACAG1	Acreage - Agricultural - 100 acres or less
	ACAG2	Acreage - Agricultural - More than 100 acres
	ACAP5	Acreage - Apartment - More than 5 acres
	ACCM2	Acreage - Commercial - More than 2.5 acres
	ACRE5	Acreage - Residential - 5 acres or less
	ACRE6	Acreage - Residential - More than 5 acres
	APT51	Apartment - 51 units or more
	BOFAC	Bank Owned Facilities
	CHRCH	Church, School, or Daycare Facility
	CNDHO	Condo Hotel
	COMM	Commercial
	CONDO	Condominium
	COOP	Cooperative
	CRWSH	Car Wash / Auto Service
	DPLX2	Duplex - 2 Unit
	DPLX3	Duplex - 3 Unit
	DPLX4	Duplex - 4 Unit
	FARM	Farm or Ranch
	GASST	Gas Station / Convenience Store
	HFFAC	Health and Fitness Facilities
	HIRIS	High Rise
	HOSPL	Hospital or Residential Care Facility
	HOTEL	Hotel / Motel

	LORIS	Low Rise
	LOT	Lot
	LOTCM	Lot - Platted - Commercial
	LOTIN	Lot - Platted - Industrial
	LOTMO	Lot - Platted - Mobile Home
	LOTRE	Lot - Platted - Residential
	LWRHS	Warehouse - More than 20,000 square feet
	MANU	Manufactured
	MOBIL	Mobile Home Park
	MOBLE	Mobile Home
	OFFHI	Office - High-Rise - 4-story or more
	OFFLO	Office - Low-Rise - 3-story or less
	OWRHS	Office Warehouse - Office area more than 10%
	PUD	PUD
	REREG	Retail - Regional shopping center
	RESNG	Retail - Stand-alone - Single user
	RESTR	Retail - Strip center - 50,000 sq ft or less
	SFR	SFR Attached
	SFRD	SFR Detached
	VACNT	Vacant Land
	WRHS	Warehouse - Office area less than 10%
Diagram	<pre> classDiagram class PropertyTypeOption { <<Property Type Option>> <<xs:string>> <<Restrict : xs:string>> } class Restrict { <<xs:string>> } class xsString { <<Base Type xs:string>> } PropertyTypeOption < -- Restrict Restrict < -- xsString </pre> <p>The diagram shows the UML class <code>.PropertyTypeOption</code> with three associated stereotypes: <code><<Property Type Option>></code>, <code><<xs:string>></code>, and <code><<Restrict : xs:string>></code>. The <code>Restrict</code> stereotype is further refined by the <code><<xs:string>></code> stereotype, which is itself a base type (<code>xs:string</code>).</p>	

Simple Type ZipPlus4

Namespace	http://fncinc.com/Integration.xsd
Annotations	Simple type for zip plus 4
Diagram	
Type	restriction of xs:string
Facets	maxLength 10
Used by	Element AddressInfoType/Zip

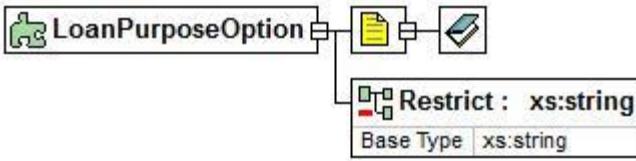
Simple Type State

Namespace	http://fncinc.com/Integration.xsd																													
Annotations	Simple type for a state code (enum)																													
Diagram																														
Type	restriction of xs:string																													
Facets	<table> <tr> <td>enumeration</td><td>AL</td></tr> <tr> <td>enumeration</td><td>AK</td></tr> <tr> <td>enumeration</td><td>AZ</td></tr> <tr> <td>enumeration</td><td>AR</td></tr> <tr> <td>enumeration</td><td>CA</td></tr> <tr> <td>enumeration</td><td>CO</td></tr> <tr> <td>enumeration</td><td>CT</td></tr> <tr> <td>enumeration</td><td>DE</td></tr> <tr> <td>enumeration</td><td>DC</td></tr> <tr> <td>enumeration</td><td>FL</td></tr> <tr> <td>enumeration</td><td>GA</td></tr> <tr> <td>enumeration</td><td>HI</td></tr> <tr> <td>enumeration</td><td>ID</td></tr> <tr> <td>enumeration</td><td>IL</td></tr> </table>		enumeration	AL	enumeration	AK	enumeration	AZ	enumeration	AR	enumeration	CA	enumeration	CO	enumeration	CT	enumeration	DE	enumeration	DC	enumeration	FL	enumeration	GA	enumeration	HI	enumeration	ID	enumeration	IL
enumeration	AL																													
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enumeration	IN
enumeration	IA
enumeration	KS
enumeration	KY
enumeration	LA
enumeration	ME
enumeration	MD
enumeration	MA
enumeration	MI
enumeration	MN
enumeration	MS
enumeration	MO
enumeration	MT
enumeration	NE
enumeration	NV
enumeration	NH
enumeration	NJ
enumeration	NM
enumeration	NY
enumeration	NC
enumeration	ND
enumeration	OH
enumeration	OK
enumeration	OR
enumeration	PA
enumeration	RI
enumeration	SC
enumeration	SD
enumeration	TN
enumeration	TX
enumeration	UT
enumeration	VT
enumeration	VA
enumeration	WA
enumeration	WV
enumeration	WI
enumeration	WY
enumeration	AS
enumeration	FM
enumeration	GU
enumeration	MH
enumeration	MP
enumeration	PW
enumeration	PR
enumeration	VI

Used by Element AddressInfoType/State

Simple Type [LoanPurposeOption](#)

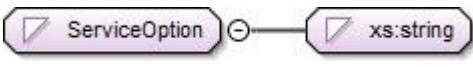
<i>Super-types:</i>	xs:string < LoanPurposeOption (by restriction)																																																																																				
<i>Sub-types:</i>	None																																																																																				
Name	LoanPurposeOption																																																																																				
Content	<ul style="list-style-type: none"> Base XSD Type: string <i>value</i> comes from list: {'' 'ACQ' 'AddCo' 'AMAN' 'BFR' 'BsLOC' 'BusLo' 'Cash' 'ChgCo' 'CPERM' 'HELOC' 'NCash' 'NCon' 'Other' 'PreFo' 'Purc' 'RCVY' 'Refi' 'RenCa' 'Renew' 'RenLo' 'REOLS' 'RMon' 'Work' 'RENOV' 'CRTLN' 'PRTCP' 'PURMN' 'SBULN'} 																																																																																				
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Work		Workout																																																																																			
Diagram	 <pre> classDiagram class LoanPurposeOption { <<restriction : xs:string>> } xs:string < --> LoanPurposeOption </pre>																																																																																				

Simple Type [OccupancyTypeOption](#)

Namespace	http://fncinc.com/CHQ																		
Annotations	<table> <thead> <tr> <th></th> <th>Enumeration</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>INV</td> <td></td> <td>Investor</td> </tr> <tr> <td>OTHER</td> <td></td> <td>Other</td> </tr> <tr> <td>PR</td> <td></td> <td>Primary Residence</td> </tr> <tr> <td>SH</td> <td></td> <td>Second Home</td> </tr> <tr> <td>VAC</td> <td></td> <td>Vacancy</td> </tr> </tbody> </table>		Enumeration	Description	INV		Investor	OTHER		Other	PR		Primary Residence	SH		Second Home	VAC		Vacancy
	Enumeration	Description																	
INV		Investor																	
OTHER		Other																	
PR		Primary Residence																	
SH		Second Home																	
VAC		Vacancy																	
Diagram	 <pre> classDiagram class OccupancyTypeOption { <<restriction : xs:string>> } xs:string < --> OccupancyTypeOption </pre>																		
Type	restriction of xs:string																		
Facets	enumeration INV																		

	enumeration OTHER
	enumeration PR
	enumeration SH
	enumeration VAC
Used by	Element CreateOrderRqType/OccupancyTypeld

Simple Type ServiceOption

Namespace	http://fncinc.com/CHQ	
Diagram		
Type	restriction of xs:string	
Facets	Enumeration	Description
	1	1004D - Update/Completion
	2	1004 - URAR
	3	1004 with 1007
	4	1004 with 216
	5	1004 with 216 and 1007
	6	1004C Manufactured Home
	7	1007 - Rent Schedule Comp.
	8	1025 - Sm. Res. Inc.
	9	1025 with 216
	10	1073 - Ind. Condo Unit
	11	1073 with 1007
	12	1073 with 216
	13	1073 with 216, 1007
	14	1075 - Ext. Ind. Condo
	15	1075 with 1007
	16	1075 with 216
	17	1075 with 216,1007
	18	2000 - 1 Unit Field Review
	19	2000A - 2 to 4 Unit Field Review
	20	2055 Ext with 1007
	21	2055 Ext with 216
	22	2055 Ext with 216, 1007
	23	2055 Exterior Residential
	24	2070 - Cond and Mkt Report
	25	2090 - Co-Op Interest
	26	2095 - Co-Op Ext Interest
	27	216 - Operating Inc.
	28	442 - Satisfactory Certificate
	29	Land Appraisal Report
	30	Recertification of Value
	31	BPO - Interior
	32	BPO - Exterior
	33	2006 - Short Form Review
	34	Field Review
	35	Desk Review
	36	2075 - Property Inspection
	37	Compliance Inspection Report
	38	Desktop Restricted Use Report
	39	Photo Only
	40	2055 Interior
	41	1007 w/ 216
	42	Computer Assisted Appraisal
	43	1004C w/ 216 and 1007
	44	1025 w/ 1007
	45	1025 w/ 216 and 1007
	46	Addendum Letter

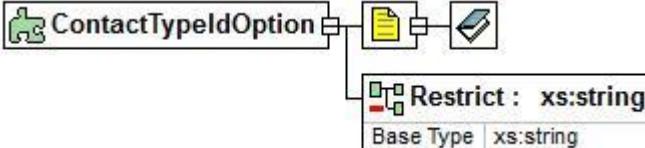
47	Reassessment of Value
48	1004C with 1007
49	1004C with 216
50	Construction Draw
51	REO Addendum
52	ERC - Relocation
53	Narrative
54	Commercial
55	Request for Bid
56	FNMA BPO Exterior
57	FNMA BPO Interior
58	1004 with REO Addendum
59	FNC BPO - Interior
60	2045 - Master Residential Appraisal
61	Appraiser Assisted AVM
62	AVM
63	Third Party Originator Review
64	2045A - Master Residential Appraisal - Amendment
65	Other
66	CDNA Service
67	1004C with REO Addendum
68	1025 with REO Addendum
69	1073 with REO Addendum
70	Revision
71	FNC BPO - Exterior
72	PR Sitex
73	HistoryPro
74	Initial Review
75	1004 No Cost Approach
76	1004 Cost Approach
77	1004 No Cost with 6 Month Liquidation Value
78	1004D Update
79	1004D Completion
80	LOANSAFE CM
81	GEOAVM
82	External Reconciliation
83	Internal Reconciliation
84	Comp Search
85	Work to Date
86	Partial Inspection Fee
87	Interior Inspection
88	Court Testimony
89	FNMA 2-4 Family Field Review Exterior
90	FNMA 2-4 Family Field Review Interior
91	FNMA One Unit Field Review Exterior
92	FNMA One Unit Field Review Interior
93	Investigative Enhanced Review
94	Investigative Review
95	Investigative Review Following Retrospective Appraisal
96	MLS Data and Assessor Verification
97	Service Placeholder
98	Service Placeholder
99	Automated Review
100-150	Service Placeholders

Used by Element CreateOrderRqType/ServiceId

Simple Type **ContactTypeldOption**

Super-types: [xs:string](#) < **ContactTypeIdOption** (by restriction)

Sub-types: None

Name	ContactTypeIdOption	
Content	<ul style="list-style-type: none"> Base XSD Type: string <i>value</i> comes from list: {'E' 'O' 'B' 'G' 'C' 'S' 'L' 'CB' 'LA' 'BA' 'BK' 'BU' 'BY'} 	
Documentation	Enumeration B Borrower BA Buyer's Agent BK Broker BU Builder BY Buyer C Contact CB Co-Borrower E Entry G General Contact L Loan Officer LA Listing Agent O Owner S Seller	Description
Diagram	 <pre> classDiagram class ContactTypeIdOption { <<xs:string>> } class xs:string { <<Restrict : xs:string>> <<Base Type : xs:string>> } ContactTypeIdOption < -- xs:string </pre>	

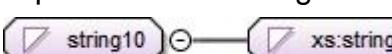
Simple Type **TelephoneExtension**

Namespace	http://fncinc.com/Integration.xsd
Annotations	Simple type for telephone extensions
Diagram	
Type	restriction of xs:string
Facets	maxLength 5

Simple Type **string1**

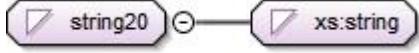
Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	restriction of xs:string
Facets	maxLength 1
Used by	Element OrderInfoType/ApplicantMiddleInitial

Simple Type **string10**

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	restriction of xs:string
Facets	maxLength 10

Used by	Elements	AddressInfoType/Prefix, AddressInfoType/StreetNo, AddressInfoType/Suffix, AddressInfoType/UnitNo, RequestHdrType/AppInstance, StatusUpdateType/StatusId
---------	----------	---

Simple Type **string20**

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	restriction of xs:string
Facets	maxLength 20
Used by	Elements OrderTrackingType/DocId, OrderTrackingType/FolderId, RequestHdrType/TargetApp, StatusUpdateType/DocId, UploadFileType/DocId, UploadFileType/FileName

Simple Type **string30**

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	restriction of xs:string
Facets	maxLength 30
Used by	Elements AddressInfoType/County, AddressInfoType/Street, OrderInfoType/ApplicantFirstName, OrderInfoType/ApplicantLastName, OrderInfoType/Reference1, OrderInfoType/Reference2

Simple Type **string40**

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	restriction of xs:string
Facets	maxLength 40

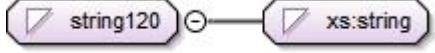
Simple Type **string50**

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	restriction of xs:string
Facets	maxLength 50

Simple Type **string80**

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	restriction of xs:string
Facets	maxLength 80
Used by	Elements ContactType/Email

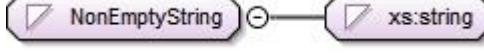
Simple Type **string120**

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	restriction of xs:string
Facets	maxLength 120

Simple Type string512

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	restriction of xs:string
Facets	maxLength 512

Simple Type NonEmptyString

Namespace	http://fncinc.com/Integration.xsd
Annotations	Simple type representing a non empty string
Diagram	
Type	restriction of xs:string
Facets	minLength 1
Used by	Elements ContactType/Name, OrderCommentType/Author, OrderCommentType/Comment

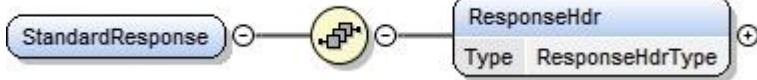
Simple Type YesNoType

Namespace	http://fncinc.com/Integration.xsd
Annotations	Simple type for Yes No (enum)
Diagram	
Type	restriction of xs:string
Facets	enumeration Y enumeration N

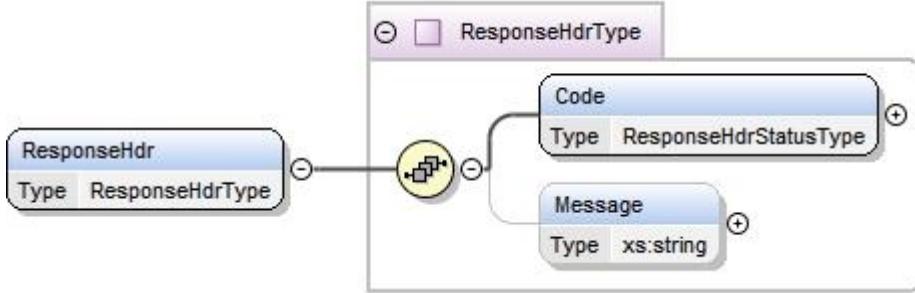
Standard LOS Response

CMS expects a response from the LOS. The response may also return a processing error and message.

Element StandardResponse

Namespace	http://fncinc.com/Integration.xsd
Annotations	The element sent for an simple response
Diagram	
Properties	content: complex
Model	ResponseHdr
Children	ResponseHdr
Instance	<pre><StandardResponse> <ResponseHdr>{1,1}</ResponseHdr> </StandardResponse></pre>

Element StandardResponse/ResponseHdr

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	ResponseHdrType
Properties	content: complex
Model	Code , Message{0,1}
Children	Code, Message
Instance	<pre><ResponseHdr> <Code>{1,1}</Code> <Message>{0,1}</Message> </ResponseHdr></pre>

Element ResponseHdrType / Code

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	ResponseHdrStatusType
Properties	content: simple
Facets	enumeration OK enumeration ApplicationError enumeration SystemError enumeration ReferentialIntegrityError

Element ResponseHdrType / Message

Namespace	http://fncinc.com/Integration.xsd
Diagram	

Type	xs:string
Properties	content: simple minOccurs: 0

Sample XML

A simplified version of Response XML is below:

```
<StandardResponse xsi:schemaLocation="http://fncinc.com/CHQ CMS.xsd"
xmlns:in="http://fncinc.com/Integration.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
    <ResponseHdr>
        <Code>OK</Code>
        <Message/>
    </ResponseHdr>
</StandardResponse>
```

Global Business and Processing Rules

Attribute RequestHdrType/@Version

Namespace	No namespace	
Annotations	Based on schema	
Type	xs:string	
Properties	use:	required
	fixed:	1.0
Used by	Complex Type	RequestHdrType

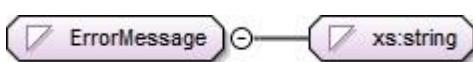
Attribute RequestHdrType/@IsTest

Namespace	No namespace	
Annotations	Not currently used; For development team to utilize in a QA-like environment.	
Type	xs:boolean	
Properties	use:	optional
	default:	false
Used by	Complex Type	RequestHdrType

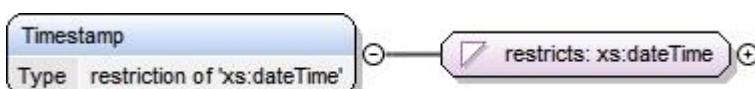
Simple Type GUID

Namespace	http://fncinc.com/Integration.xsd	
Annotations	Simple type for a document ID (guid)	
Diagram		
Type	restriction of xs:string	
Facets	pattern	[a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}
Used by	Elements	AddOrderCommentRS/CommentId, RequestHdrType/CorrelationId, RequestHdrType/Messageld, RequestHdrType/SequenceKey, SendOrderCommentRQ/CommentId

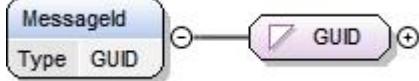
Simple Type ErrorMessage

Namespace	http://fncinc.com/Integration.xsd	
Annotations	Simple type for an error message	
Diagram		
Type	restriction of xs:string	
Facets	maxLength	512

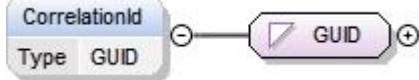
Element RequestHdrType/Timestamp

Namespace	http://fncinc.com/Integration.xsd	
Annotations	The timestamp from sending system Formatting: ISO8601; sql type 126; yyyy-mm-ddThh:mi:ss.mmm (no spaces)	
Diagram		
Type	xs:dateTime	
Properties	content:	simple

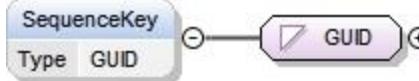
Element RequestHdrType/MessageId

Namespace	http://fncinc.com/Integration.xsd
Annotations	A unique identifier for the XML. Each unique message must have a unique MessageId.
Diagram	 <pre> classDiagram class MessageId { <<GUID>> } class MessageId { <<Type>> } MessageId < -- GUID </pre>
Type	GUID
Properties	content: simple
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

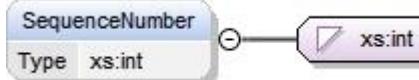
Element RequestHdrType/CorrelationId

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	 <pre> classDiagram class CorrelationId { <<GUID>> } class CorrelationId { <<Type>> } CorrelationId < -- GUID </pre>
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element RequestHdrType/SequenceKey

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	 <pre> classDiagram class SequenceKey { <<GUID>> } class SequenceKey { <<Type>> } SequenceKey < -- GUID </pre>
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element RequestHdrType/SequenceNumber

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	 <pre> classDiagram class SequenceNumber { <<xs:int>> } class SequenceNumber { <<Type>> } SequenceNumber < -- xs:int </pre>
Type	xs:int
Properties	content: simple minOccurs: 0

Status Update Touchpoint

:: Status Update Post

The Status Update Touch Point originates from CMS. This update is triggered when the order's status is changed in CMS (relevant statuses are explained in more detail in the following sections). Order updates are transferred from CMS to the Client System (ordering system).

Actors

CMS This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.

Client System System responsible for data management and originating orders

Preconditions – URL for Client system is completed in CMS

Post Conditions – Order updates sent from CMS and processed in Client System.

► Main Scenario

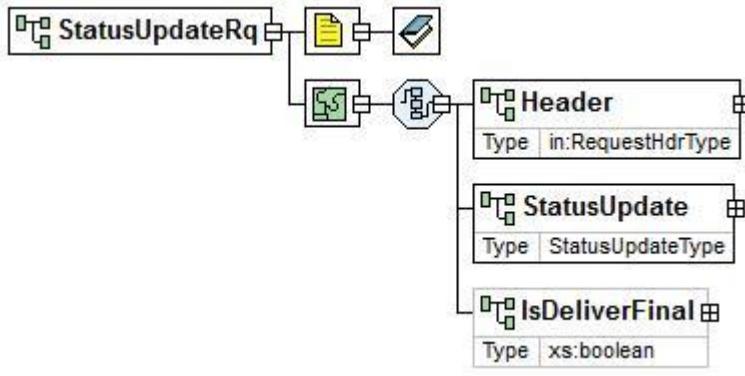
1. Order's status changes to one of the statuses which trigger a status update.
2. CMS sends Status Update to Client System.
3. Client System receives Status Update and validates XML.
4. Client System sends response to communicate successful receipt of XML.
5. Client System updates order in its system with updated order information.

► Alternate Scenarios

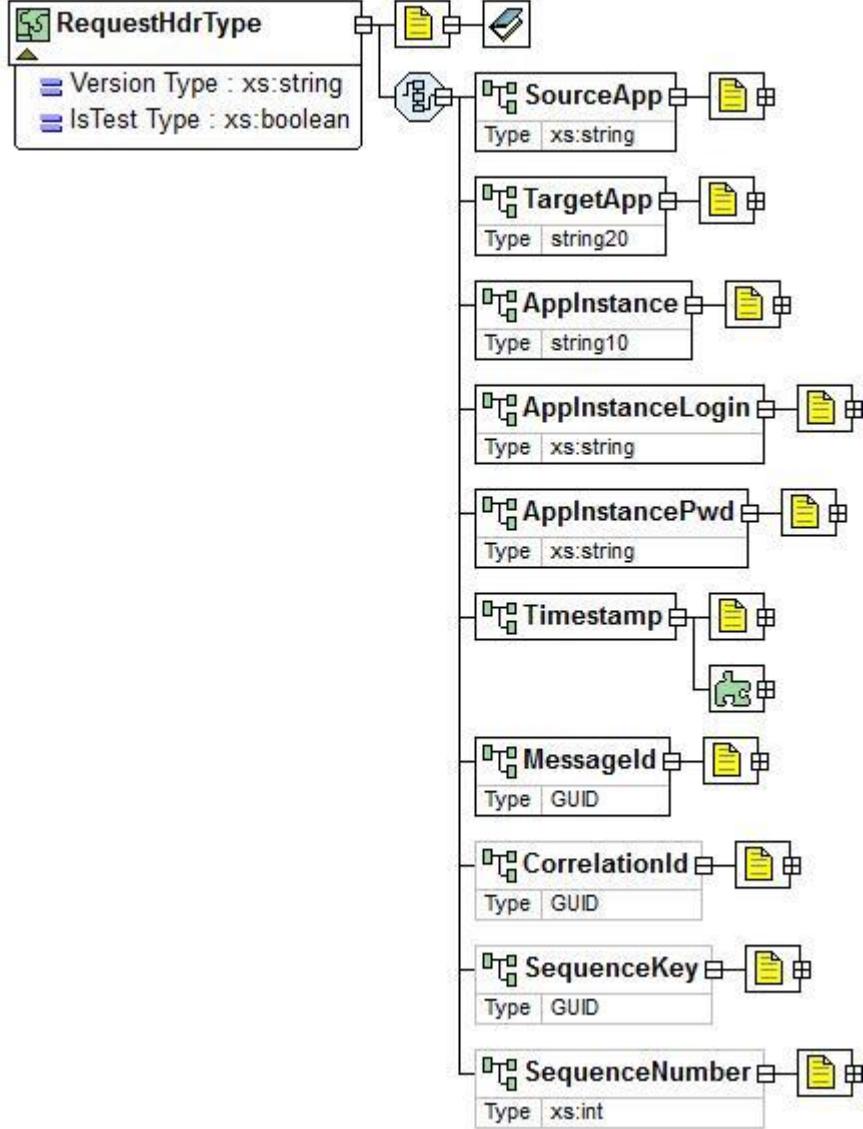
1. Can't connect to LOS – System Error
2. LOS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. LOS sends a failure acknowledgement – an application error occurred.
4. LOS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

XML Structure Overview

Element StatusUpdateRq

Namespace	http://fncinc.com/CHQ
Annotations	The Status Update Touch Point originates from CHQ. This update is triggered when the order's status is changed in CHQ. Order updates are transferred from CHQ to the Client System (ordering system).
Diagram	 <pre> classDiagram class StatusUpdateRq { <<StatusUpdateRq>> <<Header>> <<StatusUpdate>> <<IsDeliverFinal>> } StatusUpdateRq < -- Header StatusUpdateRq < -- StatusUpdate StatusUpdateRq < -- IsDeliverFinal </pre>
Properties	content: complex
Instance	<StatusUpdateRq> <Header>{1,1}</Header> <StatusUpdate>{1,1}</StatusUpdate> <IsDeliverFinal>{0,1}</IsDeliverFinal> </StatusUpdateRq>

Element StatusUpdateRq/Header

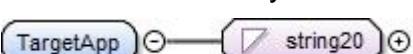
Namespace	http://fncinc.com/CHQ
Annotations	SourceApp = CHQ TargetApp = LOS
Diagram	 <pre> classDiagram class RequestHdrType { <<RequestHdrType>> <<Version>> <<IsTest>> } RequestHdrType < -- SourceApp RequestHdrType < -- TargetApp RequestHdrType < -- ApplInstance RequestHdrType < -- ApplInstanceLogin RequestHdrType < -- ApplInstancePwd RequestHdrType < -- Timestamp RequestHdrType < -- MessageId RequestHdrType < -- CorrelationId RequestHdrType < -- SequenceKey RequestHdrType < -- SequenceNumber </pre>

Type	RequestHdrType																							
Properties	content: complex																							
Instance	<pre><Header IsTest="false" Version="1.0"> <SourceApp>{1,1}</SourceApp> <TargetApp>{1,1}</TargetApp> <ApplInstance>{1,1}</ApplInstance> <ApplInstanceLogin>{1,1}</ApplInstanceLogin> <ApplInstancePwd>{1,1}</ApplInstancePwd> <Timestamp>{1,1}</Timestamp> <MessageId>{1,1}</MessageId> <CorrelationId>{0,1}</CorrelationId> <SequenceKey>{0,1}</SequenceKey> <SequenceNumber>{0,1}</SequenceNumber> </Header></pre>																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>IsTest</td><td>xs:boolean</td><td></td><td>false</td><td>optional</td><td>Not currently used; For development team to utilize in a QA-like environment.</td></tr> <tr> <td>Version</td><td>xs:string</td><td>1.0</td><td></td><td>required</td><td>Based on schema</td></tr> </tbody> </table>						QName	Type	Fixed	Default	Use	Annotation	IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.	Version	xs:string	1.0		required	Based on schema
QName	Type	Fixed	Default	Use	Annotation																			
IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.																			
Version	xs:string	1.0		required	Based on schema																			

Element Header/SourceApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The name of the system sending message
Diagram	
Type	xs:string
Properties	content: simple

Element Header/TargetApp

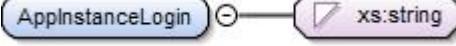
Namespace	http://fncinc.com/Integration.xsd
Annotations	The Name of the system receiving the message
Diagram	
Type	string20
Properties	content: simple
Facets	maxLength 20

Element Header/ApplInstance

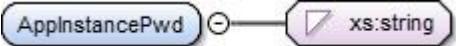
Namespace	http://fncinc.com/Integration.xsd
Annotations	An identifier obtained from FNC
Diagram	
Type	string10
Properties	content: simple
Facets	maxLength 10

Element Header/ApplInstanceLogin

Namespace	http://fncinc.com/Integration.xsd
Annotations	User name for authentication (managed in CHQ)

Diagram	
Type	xs:string
Properties	content: simple

Element Header/AppInstancePwd

Namespace	http://fncinc.com/Integration.xsd
Annotations	Password for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element Header/Timestamp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The timestamp from sending system Formatting: ISO8601; sql type 126; yyyy-mm-ddThh:mi:ss.mmm (no spaces)
Diagram	
Type	xs:dateTime
Properties	content: simple

Element Header/Messageld

Namespace	http://fncinc.com/Integration.xsd
Annotations	A unique identifier for the XML. Each unique message must have a unique Messageld.
Diagram	
Type	GUID
Properties	content: simple
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element Header/CorrelationId

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element Header/SequenceKey

Namespace	http://fncinc.com/Integration.xsd
Annotations	Unique identifier for SequenceKey.
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element [Header/SequenceNumber](#)

Namespace	http://fncinc.com/Integration.xsd
Annotations	A value used to determine the order of the update. This is primarily used in the Status Update touchpoint.
Diagram	
Type	xs:int
Properties	content: simple minOccurs: 0

StatusUpdate Node

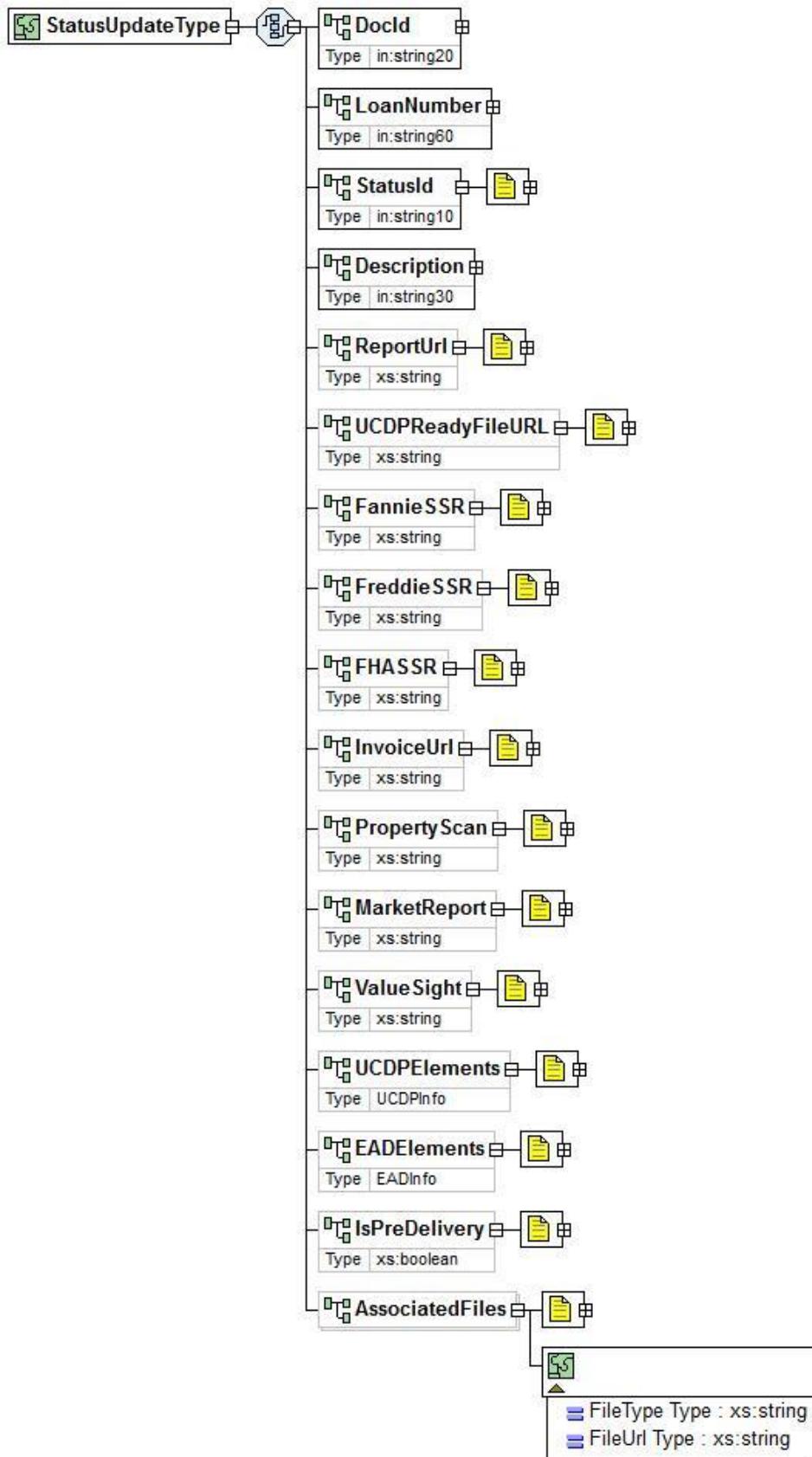
Element [StatusUpdateRq/StatusUpdate](#)

Notice the <Header> in schema is defined as the header type in <Create HeaderRq>.

Complex Type [StatusUpdateType](#)

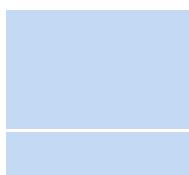
Namespace <http://fncinc.com/CHQ>

Diagram



Used by	Elements	RetrieveOrderStatusRs/StatusUpdate, StatusUpdateRq/StatusUpdate
---------	----------	--

Instance	<pre><StatusUpdate xmlns="http://fncinc.com/CHQ"> <DocId>{1,1}</DocId> <LoanNumber>{1,1}</LoanNumber> <StatusId>{1,1}</StatusId> <Description>{1,1}</Description> <ReportUrl>{0,1}</ReportUrl> <UCDPReadyFileURL>{0,1}</UCDPReadyFileURL> <FannieSSR>{0,1}</FannieSSR> <FreddieSSR>{0,1}</FreddieSSR> <InvoiceUrl>{0,1}</InvoiceUrl> <PropertyScan>{0,1}</PropertyScan> <MarketReport>{0,1}</MarketReport> <ValueSight>{0,1}</ValueSight> <UCDPElements>{0,1}</UCDPElements> <FADEElements>{0,1}</FADEElements></pre>
----------	---

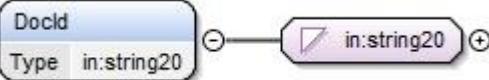


```

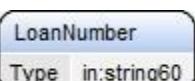
<IsPreDelivery>{0,1}</IsPreDelivery>
<AssociatedFiles>{0,1}</AssociatedFiles>
</StatusUpdate>

```

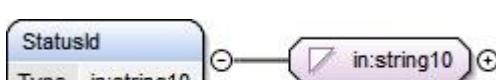
Element StatusUpdate/DocId

Namespace	http://fncinc.com/CHQ
Diagram	
Type	string20
Properties	content: simple minOccurs: 1
Facets	maxLength 20

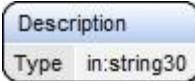
Element StatusUpdate/LoanNumber

Namespace	http://fncinc.com/CHQ
Diagram	
Type	String60
Properties	content: simple minOccurs: 1

Element StatusUpdate/StatusId

Namespace	http://fncinc.com/CHQ
Annotations	StatusID the current order is in
Diagram	
Type	string10
Properties	content: simple minOccurs: 1
Facets	maxLength 10

Element StatusUpdate/Description

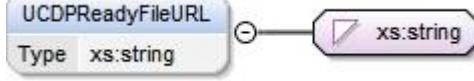
Namespace	http://fncinc.com/CHQ
Diagram	
Type	String30
Properties	content: simple minOccurs: 1

Element StatusUpdate/ReportUrl

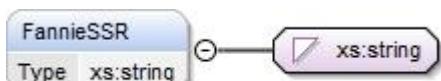
Namespace	http://fncinc.com/CHQ
Annotations	URL linking to order related documents, provided when the order is closed (Terminal status).
Diagram	
Type	xs:string

Properties	content: simple
	minOccurs: 0

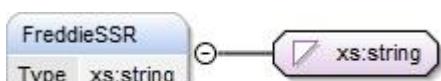
Element StatusUpdate/UCDPReadyFileURL

Namespace	http://fncinc.com/CHQ
Annotations	Link to generate UCDP Ready File. This is only viewable when the order is in a terminal status.
Diagram	 <p>The diagram shows the element 'UCDPReadyFileURL' with a multiplicity of zero at its end of the association line. It is associated with the type 'xs:string', which is represented by a rounded rectangle containing the text 'xs:string'.</p>
Type	xs:string
Properties	content: simple minOccurs: 0

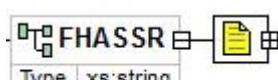
Element StatusUpdate/FannieSSR

Namespace	http://fncinc.com/CHQ
Annotations	Flow Based Fannie SSR. This is only viewable when the order is in a terminal status.
Diagram	 <p>The diagram shows the element 'FannieSSR' with a multiplicity of zero at its end of the association line. It is associated with the type 'xs:string', which is represented by a rounded rectangle containing the text 'xs:string'.</p>
Type	xs:string
Properties	content: simple minOccurs: 0

Element StatusUpdate/FreddieSSR

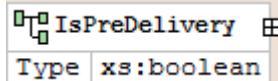
Namespace	http://fncinc.com/CHQ
Annotations	Flow Based Freddie SSR. This is only viewable when the order is in a terminal status.
Diagram	 <p>The diagram shows the element 'FreddieSSR' with a multiplicity of zero at its end of the association line. It is associated with the type 'xs:string', which is represented by a rounded rectangle containing the text 'xs:string'.</p>
Type	xs:string
Properties	content: simple minOccurs: 0

Element StatusUpdate/FHASSR

Namespace	http://fncinc.com/CHQ
Annotations	Flow Based FHA SSR. This is only viewable when the order is in a terminal status.
Diagram	 <p>The diagram shows the element 'FHASSR' with a multiplicity of zero at its end of the association line. It is associated with the type 'xs:string', which is represented by a rounded rectangle containing the text 'xs:string'.</p>
Type	xs:string
Properties	content: simple minOccurs: 0

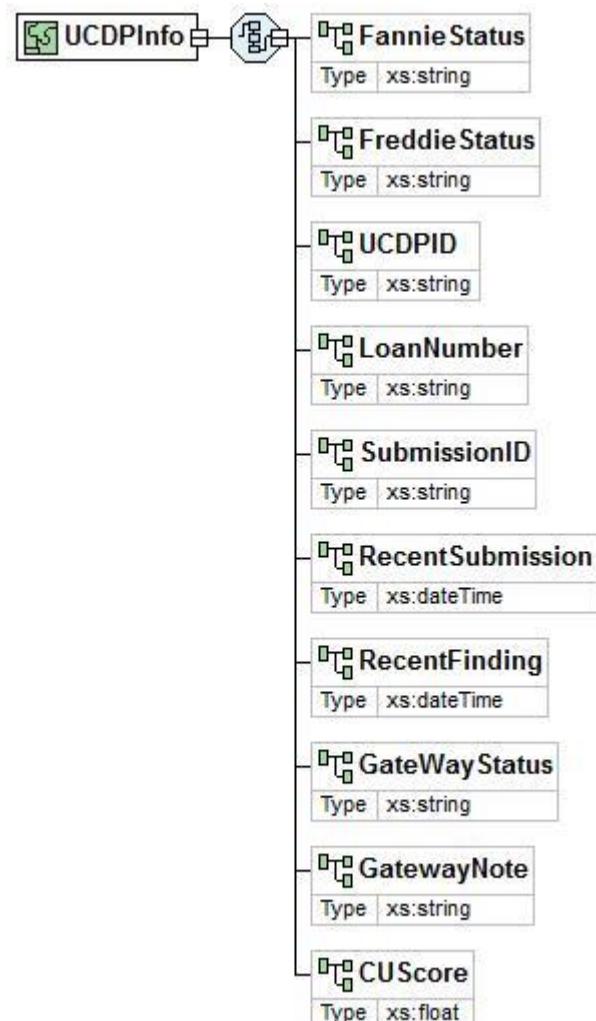
Element StatusUpdate/IsPreDelivery

Namespace	http://fncinc.com/CHQ
-----------	-----------------------

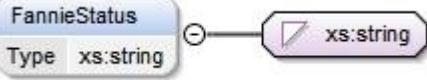
Annotations	IsPreDelivery flags the order as being generated from the LOS or from CMS.net. A value of False indicates it was from the API, a value of True indicates it was from CHQ
Diagram	
Type	xs:boolean
Properties	content: simple minOccurs: 0

UCDP Node Elements

Element StatusUpdate/UCDPElements

Namespace	http://fncinc.com/CHQ
Annotations	Returns the UCDP Info displayed on the UCDP tab. This is only viewable when the order is in a terminal status.
Diagram	
Type	UCDPInfo
Properties	content: complex minOccurs: 0
Instance	<pre><UCDPElements xmlns="http://fncinc.com/CHQ"> <FannieStatus>{0,1}</FannieStatus> <FreddieStatus>{0,1}</FreddieStatus> <UCDPID>{0,1}</UCDPID> <LoanNumber>{0,1}</LoanNumber> <SubmissionID>{0,1}</SubmissionID> <RecentSubmission>{0,1}</RecentSubmission> <RecentFinding>{0,1}</RecentFinding> <GateWayStatus>{0,1}</GateWayStatus> <GatewayNote>{0,1}</GatewayNote> <CUScore>{0,1}</CUScore> </UCDPElements></pre>

Element UCDPElements/FannieStatus

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Element UCDPElements/FreddieStatus

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

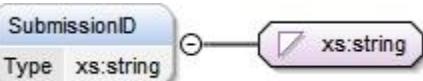
Element UCDPElements/UCDPID

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Element UCDPElements/LoanNumber

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Element UCDPElements/SubmissionID

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

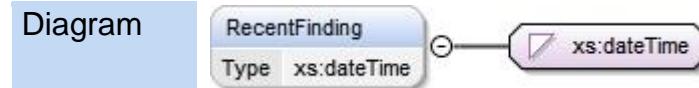
Element UCDPElements/RecentSubmission

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:dateTime
Properties	content: simple

minOccurs: 0

Element UCDPElements/RecentFinding

Namespace http://fncinc.com/CHQ

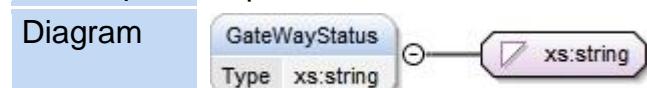


Type xs:dateTime

 Properties content: simple
 minOccurs: 0

Element UCDPElements/GateWayStatus

Namespace http://fncinc.com/CHQ

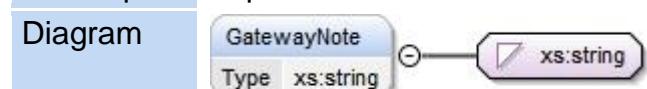


Type xs:string

 Properties content: simple
 minOccurs: 0

Element UCDPElements/GatewayNote

Namespace http://fncinc.com/CHQ



Type xs:string

 Properties content: simple
 minOccurs: 0

Element UCDPElements/CUScore

Namespace http://fncinc.com/CHQ



Type xs:float

 Properties content: simple
 minOccurs: 0

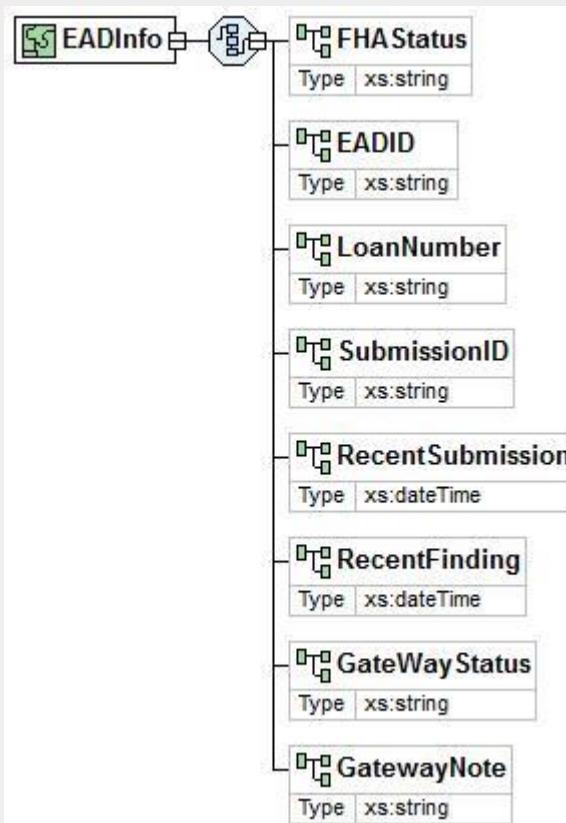
EAD Node Elements

Super-types: None

Sub-types: None

Name	EADInfo
<u>Abstract</u>	no

Diagram



XML Instance Representation

```

<...>
<FHAStatus> xs:string </FHAStatus> [0..1]
<EADID> xs:string </EADID> [0..1]
<LoanNumber> xs:string </LoanNumber> [0..1]
<SubmissionID> xs:string </SubmissionID> [0..1]
<RecentSubmission> xs:dateTime </RecentSubmission> [0..1]
<RecentFinding> xs:dateTime </RecentFinding> [0..1]
<GateWayStatus> xs:string </GateWayStatus> [0..1]
<GatewayNote> xs:string </GatewayNote> [0..1]
</...>

```

Schema Component Representation

```

<xs:complexType name="EADInfo">
    <xs:sequence>
        <xs:element name="FHAStatus" type="xs:string" minOccurs="0"/>
        <xs:element name="EADID" type="xs:string" minOccurs="0"/>
        <xs:element name="LoanNumber" type="xs:string" minOccurs="0"/>
        <xs:element name="SubmissionID" type="xs:string" minOccurs="0"/>
        <xs:element name="RecentSubmission" type="xs:dateTime" minOccurs="0"/>
        <xs:element name="RecentFinding" type="xs:dateTime" minOccurs="0"/>
        <xs:element name="GateWayStatus" type="xs:string" minOccurs="0"/>
        <xs:element name="GatewayNote" type="xs:string" minOccurs="0"/>
    </xs:sequence>
</xs:complexType>

```

Sample XML

A simplified version of Status Update XMLs is below:

[1] Sample XML of Status Update upon successful order completion:

```

<?xml version="1.0" encoding="utf-8"?>
<StatusUpdateRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
    <Header Version="1.0">
        <SourceApp xmlns="http://fncinc.com/Integration.xsd">CHQ</SourceApp>
        <TargetApp xmlns="http://fncinc.com/Integration.xsd">LOS</TargetApp>
        <AppInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</AppInstance>
        <AppInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</AppInstanceLogin>
        <AppInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123</AppInstancePwd>
        <Timestamp xmlns="http://fncinc.com/Integration.xsd">2013-10-10T16:27:51.4456964-05:00</Timestamp>
        <MessageId xmlns="http://fncinc.com/Integration.xsd">74179ebc-3bfa-4435-9d5f-ea84a7f0a876</MessageId>
        <SequenceKey xmlns="http://fncinc.com/Integration.xsd">3569d448-f69f-46d6-9b97-97b558746258</SequenceKey>
        <SequenceNumber xmlns="http://fncinc.com/Integration.xsd">8</SequenceNumber>
    </Header>
    <StatusUpdate>
        <DocId>20100910-5652-1</DocId>
        <LoanNumber>91010114</LoanNumber>
    </StatusUpdate>
</StatusUpdateRq>

```

```

<StatusId>LA</StatusId>
<Description>APPROVED - AS IS</Description>
<ReportUrl>https://collateralhq.fncinc.com/default.aspx?pageld=streamfile&fileld=CC736200-EC05-1A18-9140-367C433AF742</ReportUrl>
<UCDPRReadyFileURL>https://collateralhq.fncinc.com/default.aspx?pageld=viewUCDPRReadyFile&docID=21100910-5652-1&fileld=cc736200-ec05-4a18-9140-367c433af742</UCDPRReadyFileURL>
<FannieSSR>https://collateralhq.fncinc.com/default.aspx?pageld=streamfile&fileld=DF8E1025-F1F8-12E6-9CC2-4D151D98256D</FannieSSR>
<FreddieSSR>https://collateralhq.fncinc.com/default.aspx?pageld=streamfile&fileld=0A07E673-4A2D-1F81-BEBB-B0068C2D1DFE</FreddieSSR>
<UCDPElements>
  <FannieStatus>IS0000</FannieStatus>
  <FreddieStatus>IS0000</FreddieStatus>
  <UCDPID>1100071CB5</UCDPID>
  <SubmissionID>20122ONMK3BBKJKLE8L5</SubmissionID>
  <RecentSubmission>2012-02-23T15:42:14</RecentSubmission>
  <RecentFinding>2012-02-23T15:44:08</RecentFinding>
  <GateWayStatus>Complete</GateWayStatus>
  <GatewayNote>Complete</GatewayNote>
  <CUScore>999</CUScore>
</UCDPElements>
<IsPreDelivery>false</IsPreDelivery>
<AssociatedFiles FileType="Appraisal Invoice">
  FileUrl="https://collateralhq.fncinc.com/default.aspx?pageld=streamfile&fileld=3f74f52d-d378-45af-9dea-1bd447964c29"/>
  <AssociatedFiles FileType="Other Documents">
    FileUrl="https://collateralhq.fncinc.com/default.aspx?pageld=streamfile&fileld=e4fea73e-f4ad-4c7b-a203-19d9ddb431bb"/>
    <AssociatedFiles FileType="Review Scope">
      FileUrl="https://collateralhq.fncinc.com/default.aspx?pageld=streamfile&fileld=3f7f052f-f58f-4629-8695-19bc2bc31d7"/>
      <AssociatedFiles FileType="Review">
        FileUrl="https://collateralhq.fncinc.com/default.aspx?pageld=streamfile&fileld=6ff6f1bf-3448-40ec-ab99-1ce33e04d954"/>
        <AssociatedFiles FileType="Valuation Independence Letter">
          FileUrl="https://collateralhq.fncinc.com/default.aspx?pageld=streamfile&fileld=41fd5095-d2d1-49f5-b53a-2e05661ec2f3"/>
          <AssociatedFiles FileType="Customer Invoice (System)">
            FileUrl="https://collateralhq.fncinc.com/default.aspx?pageld=streamfile&fileld=4b36317c-1b81-4e11-96f0-913ae59ba327"/>
          </StatusUpdate>
        </StatusUpdateRq>
      
```

[2] Sample XML of Status Update:

```

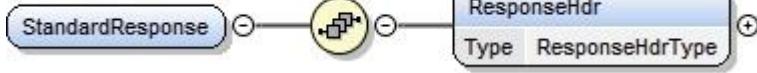
<?xml version="1.0" encoding="utf-8"?>
<StatusUpdateRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header Version="1.0">
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">CHQ</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">LOS</TargetApp>
    <AppInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</AppInstance>
    <AppInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</AppInstanceLogin>
    <AppInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123</AppInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2013-10-17T03:36:10.8090018-05:00</Timestamp>
    <MessageId xmlns="http://fncinc.com/Integration.xsd">d29296fd-67dc-4309-839b-b340b359ccf2</MessageId>
    <SequenceKey xmlns="http://fncinc.com/Integration.xsd">60f4cfae-a663-4f82-be27-1eb2844599e9</SequenceKey>
    <SequenceNumber xmlns="http://fncinc.com/Integration.xsd">6</SequenceNumber>
  </Header>
  <StatusUpdate>
    <DocId>20121120-0033-1</DocId>
    <LoanNumber>252252252</LoanNumber>
    <StatusId>A</StatusId>
    <Description>ASSIGNED TO PROVIDER</Description>
    <IsPreDelivery>true</IsPreDelivery>
  </StatusUpdate>
</StatusUpdateRq>

```

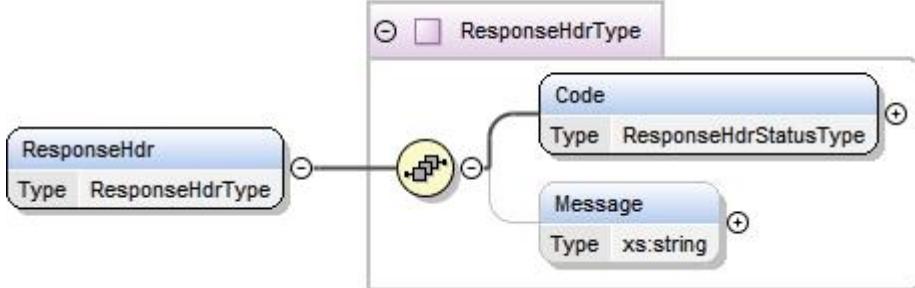
Standard LOS Response

CMS expects a response from the LOS. The response may also return a processing error and message.

Element StandardResponse

Namespace	http://fncinc.com/Integration.xsd
Annotations	The element sent for an simple response
Diagram	
Properties	content: complex
Model	ResponseHdr
Children	ResponseHdr
Instance	<StandardResponse> <ResponseHdr>{1,1}</ResponseHdr> </StandardResponse>

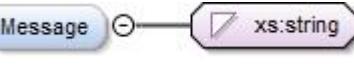
Element StandardResponse/ResponseHdr

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	ResponseHdrType
Properties	content: complex
Model	Code , Message{0,1}
Children	Code, Message
Instance	<ResponseHdr> <Code>{1,1}</Code> <Message>{0,1}</Message> </ResponseHdr>

Element ResponseHdrType / Code

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	ResponseHdrStatusType
Properties	content: simple
Facets	enumeration OK enumeration ApplicationError enumeration SystemError enumeration ReferentialIntegrityError

Element ResponseHdrType / Message

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	xs:string

Properties	content:	simple
	minOccurs:	0

Sample XML

A simplified version of Response XML is below:

```
<StandardResponse xsi:schemaLocation="http://fncinc.com/CHQ CMS.xsd"
xmlns:in="http://fncinc.com/Integration.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
    <ResponseHdr>
        <Code>OK</Code>
        <Message/>
    </ResponseHdr>
</StandardResponse>
```

:: Status Update Request

This alternate Status Update Touch Point originates from the LOS. This update is triggered when the order's status is requested from CMS (relevant statuses are explained in more detail in the following sections). Order updates are transferred from CMS to the Client System (ordering system).

Actors

CMS This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.

Client System System responsible for data management and originating orders

Preconditions – Credentials entered into CMS interface setup

Post Conditions – Order updates sent from CMS and processed in Client System.

► Main Scenario

1. LOS sends status request to CMS
2. CMS responds with Status Update to Client System.
3. Client System receives Status Update and validates XML.
4. Client System updates order in its system with updated order information.

► Alternate Scenarios

1. Can't connect to CMS – System Error
2. CMS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. CMS sends a failure acknowledgement – an application error occurred.
4. CMS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

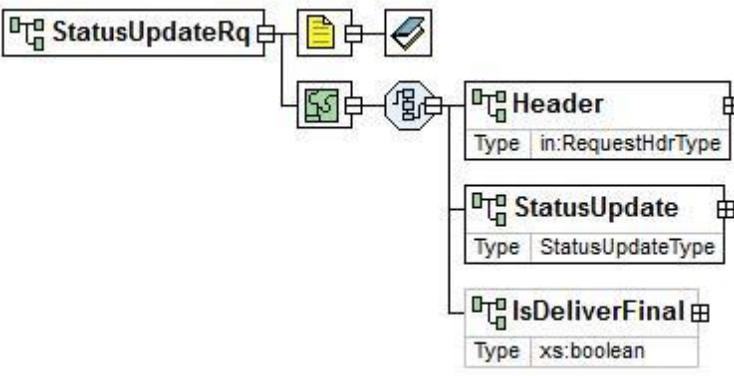
XML Post URL

UAT URL: <https://collateralhq.fncinc.com/interface/losrequest.ashx>

Production URL: <https://www.collateralhq.com/interface/losrequest.ashx>

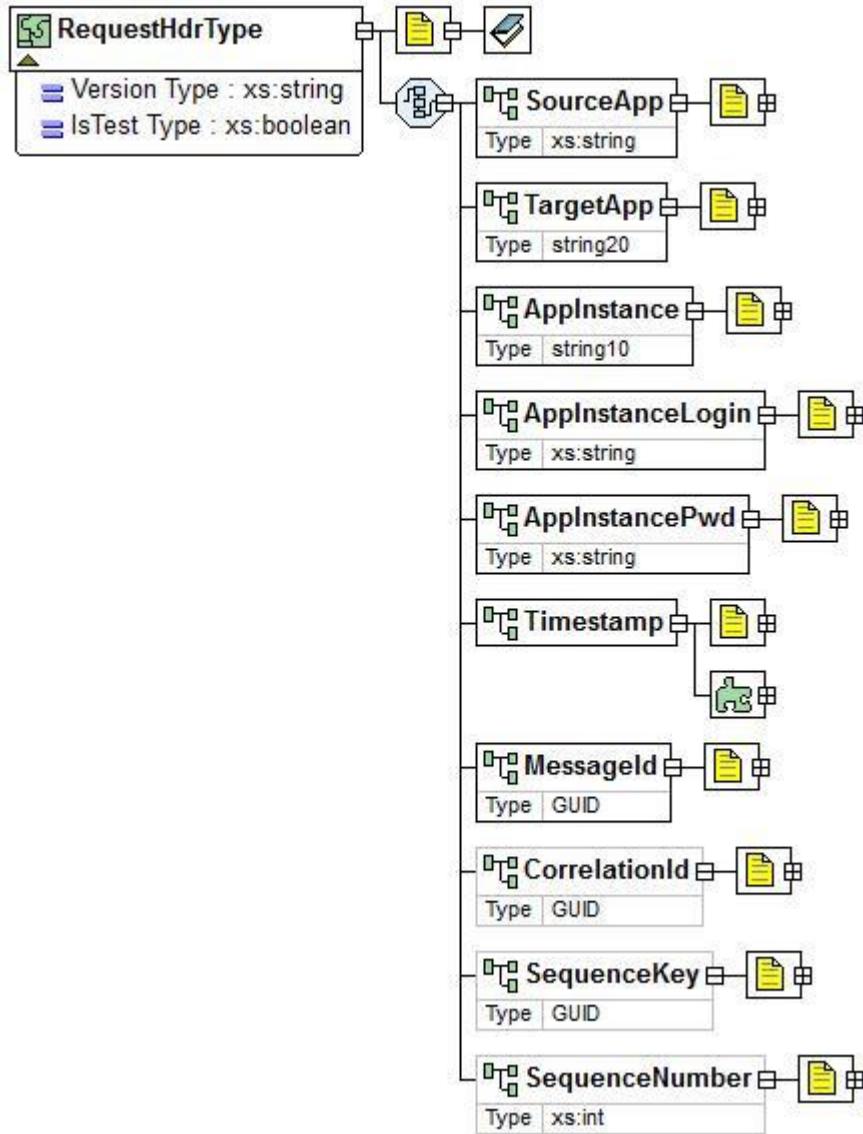
XML Structure Overview

Element `RetrieveOrderStatusRq`

Namespace	<code>http://fncinc.com/CHQ</code>
Annotations	The Status Update Touch Point originates from the LOS. This update is triggered when the order's status request is received by CMS. Order updates are transferred from CMS to the Client System (ordering system).
Diagram	 <pre> sequenceDiagram participant StatusUpdateRq participant Header participant StatusUpdate participant IsDeliverFinal StatusUpdateRq->>Header: activate Header StatusUpdateRq->>StatusUpdate: activate StatusUpdate StatusUpdate->>IsDeliverFinal: activate IsDeliverFinal </pre> <p>The diagram illustrates the XML structure of the <code>RetrieveOrderStatusRq</code> element. It starts with a <code>StatusUpdateRq</code> message (represented by a document icon) which triggers a <code>Header</code> message (represented by a document icon). The <code>Header</code> message then triggers a <code>StatusUpdate</code> message (represented by a document icon), which finally triggers an <code>IsDeliverFinal</code> message (represented by a document icon).</p>
Properties	content: complex
Instance	<pre> <RetrieveOrderStatusRq> <Header IsTest="false" Version="1.0">{1,1}</Header> <Tracking>{1,1}</Tracking> <IsDeliverFinal>{0,1}</IsDeliverFinal> </RetrieveOrderStatusRq> </pre>

Element RetrieveOrderStatusRq/Header
Namespace http://fncinc.com/CHQ

Annotations
 SourceApp = LOS
 TargetApp = CHQ

Diagram

Type RequestHdrType

Properties content: complex

Instance

```

<Header IsTest="false" Version="1.0">
  <SourceApp>{1,1}</SourceApp>
  <TargetApp>{1,1}</TargetApp>
  <ApplInstance>{1,1}</ApplInstance>
  <ApplInstanceLogin>{1,1}</ApplInstanceLogin>
  <ApplInstancePwd>{1,1}</ApplInstancePwd>
  <Timestamp>{1,1}</Timestamp>
  <MessageId>{1,1}</MessageId>
  <CorrelationId>{0,1}</CorrelationId>
  <SequenceKey>{0,1}</SequenceKey>
  <SequenceNumber>{0,1}</SequenceNumber>
</Header>
  
```

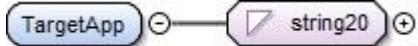
Attributes

QName	Type	Fixed	Default	Use	Annotation
IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.
Version	xs:string	1.0		required	Based on schema

Element Header/SourceApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The name of the system sending message
Diagram	
Type	xs:string
Properties	content: simple

Element Header/TargetApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The Name of the system receiving the message
Diagram	
Type	string20
Properties	content: simple
Facets	maxLength 20

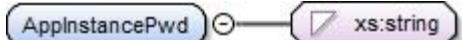
Element Header/AppInstance

Namespace	http://fncinc.com/Integration.xsd
Annotations	An identifier obtained from FNC
Diagram	
Type	string10
Properties	content: simple
Facets	maxLength 10

Element Header/AppInstanceLogin

Namespace	http://fncinc.com/Integration.xsd
Annotations	User name for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element Header/AppInstancePwd

Namespace	http://fncinc.com/Integration.xsd
Annotations	Password for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element Header/Timestamp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The timestamp from sending system Formatting: ISO8601; sql type 126; yyyy-mm-ddThh:mi:ss.mmm (no spaces)
Diagram	
Type	xs:dateTime

Properties	content: simple
------------	-----------------

Element Header/Messageld

Namespace	http://fncinc.com/Integration.xsd
Annotations	A unique identifier for the XML. Each unique message must have a unique Messageld.
Diagram	
Type	GUID
Properties	content: simple
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

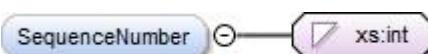
Element Header/CorrelationId

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element Header/SequenceKey

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element Header/SequenceNumber

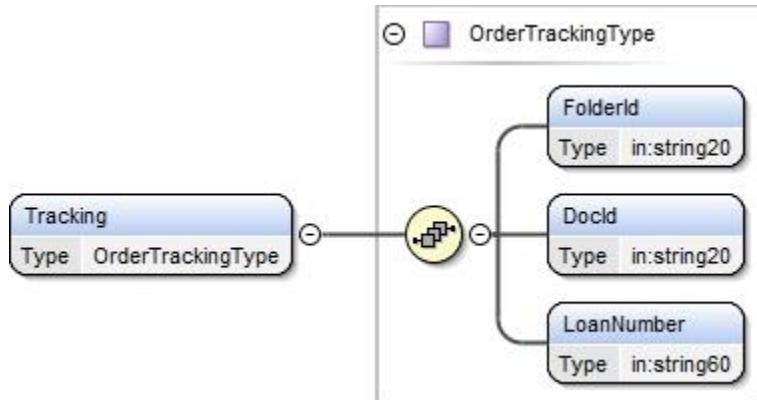
Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	xs:int
Properties	content: simple minOccurs: 0

RetrieveOrderSummary Node

Element RetrieveOrderStatusRq/Tracking

Namespace <http://fncinc.com/CHQ>

Diagram



Type OrderTrackingType

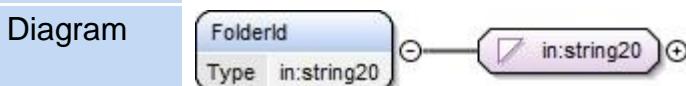
Properties content: complex
minOccurs: 1
maxOccurs: 1

Instance <Tracking>
<FolderId>{1,1}</FolderId>
<DocId>{1,1}</DocId>
<LoanNumber>{1,1}</LoanNumber>
</Tracking>

Element Tracking/FolderId

Namespace <http://fncinc.com/CHQ>

Annotations A tracking number used in CMS.



Type string20

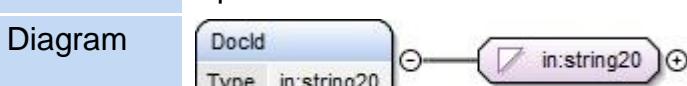
Properties content: simple
minOccurs: 1

Facets maxLength 20

Element Tracking/DocId

Namespace <http://fncinc.com/CHQ>

Annotations A tracking number used in CMS. DocId is also used for later status updates.



Type string20

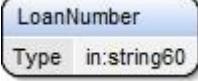
Properties content: simple
minOccurs: 1

Facets maxLength 20

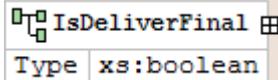
Element Tracking/LoanNumber

Namespace <http://fncinc.com/CHQ>

Annotations Loan Number; (Echoing back the received Loan Number)

Diagram	
Type	String60
Properties	content: simple minOccurs: 1

Element RetrieveOrderStatusRq/Tracking

Namespace	http://fncinc.com/CHQ
Annotations	Send this node with a value of 1 to get the status response that contains the documents associated with the order.
Diagram	
Type	Boolean
Properties	content: complex minOccurs: 0 maxOccurs: 1
Instance	<IsDeliverFinal>

Sample XML

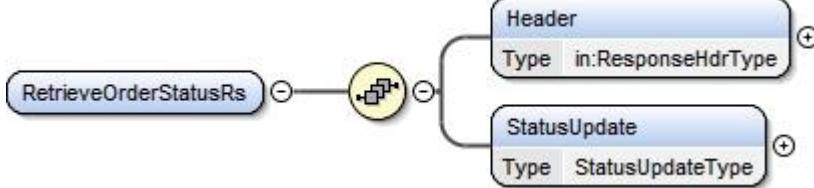
```

<?xml version="1.0" encoding="utf-8"?>
<RetrieveOrderStatusRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
    <Header Version="1.0">
        <SourceApp xmlns="http://fncinc.com/Integration.xsd">SourceApp</SourceApp>
        <TargetApp xmlns="http://fncinc.com/Integration.xsd">CHQ</TargetApp>
        <AppInstance xmlns="http://fncinc.com/Integration.xsd">fncinc</AppInstance>
        <AppInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</AppInstanceLogin>
        <AppInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123</AppInstancePwd>
        <Timestamp xmlns="http://fncinc.com/Integration.xsd">2008-09-05T14:39:46.1574462-05:00</Timestamp>
        <MessageId xmlns="http://fncinc.com/Integration.xsd">bf4959c1-8b85-4929-8317-82a0833b7650</MessageId>
    </Header>
    <Tracking>
        <FolderId>20090317-0002</FolderId>
        <DocId>20090317-0002-1</DocId>
        <LoanNumber>12253235</LoanNumber>
    </Tracking>
    <IsDeliverFinal>1</IsDeliverFinal>
</RetrieveOrderStatusRq>

```

CMS Status Update Request Response

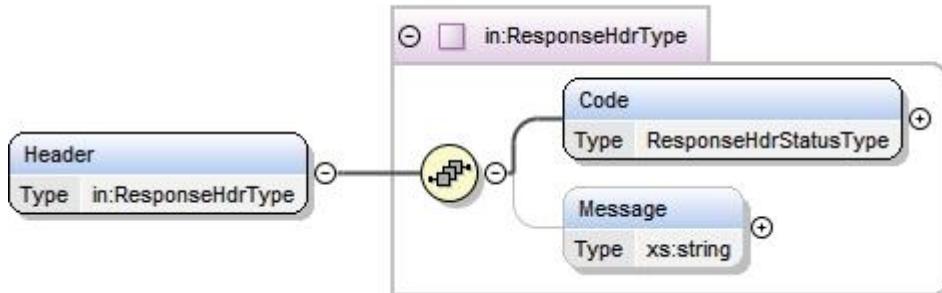
Element RetrieveOrderStatusRs

Namespace	http://fncinc.com/CHQ
Annotations	Response containing order status information
Diagram	
Properties	content: complex
Model	Header , StatusUpdate
Children	Header, StatusUpdate
Instance	<RetrieveOrderStatusRs> <Header>{1,1}</Header> <StatusUpdate>{1,1}</StatusUpdate> </RetrieveOrderStatusRs>

Element RetrieveOrderStatusRs/Header

Namespace http://fncinc.com/CHQ

Diagram



Type ResponseHdrType

Properties content: complex

Model Code , Message{0,1}

Children Code, Message

 Instance


```

<Header>
    <Code>{1,1}</Code>
    <Message>{0,1}</Message>
</Header>
    
```

Element Header/Code

Namespace http://fncinc.com/Integration.xsd

 Diagram
 

Type ResponseHdrStatusType

Properties content: simple

 Facets

enumeration	OK
enumeration	ApplicationError
enumeration	SystemError
enumeration	ReferentialIntegrityError

Element Header/Message

Namespace http://fncinc.com/Integration.xsd

 Diagram
 

Type xs:string

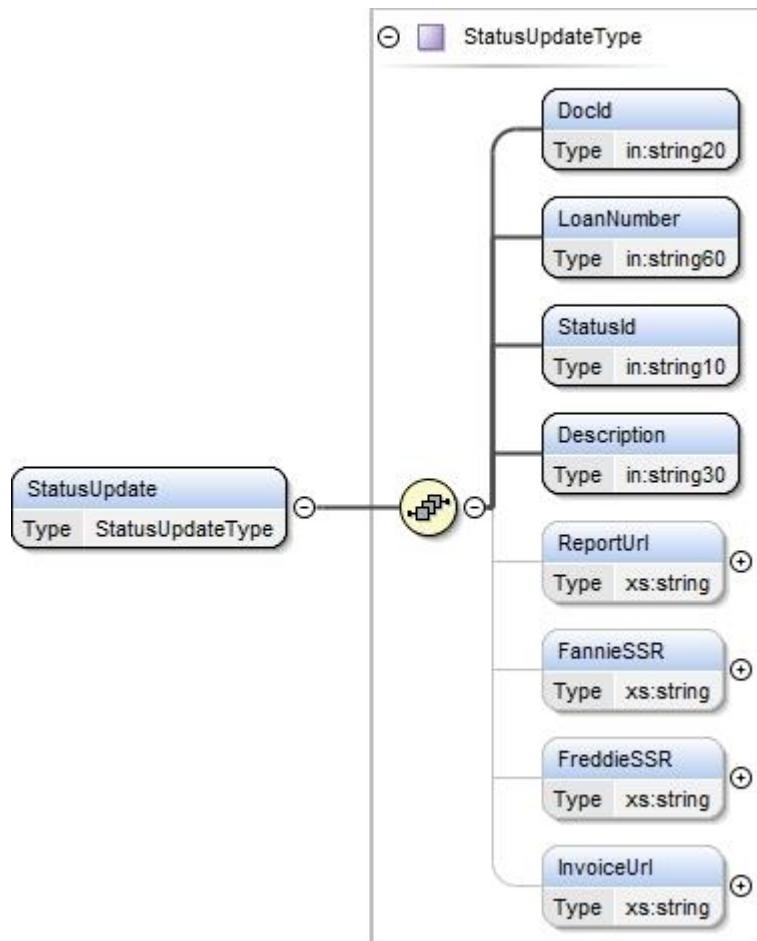
 Properties

content:	simple
minOccurs:	0

Element RetrieveOrderStatusRs/StatusUpdate

Namespace http://fncinc.com/CHQ

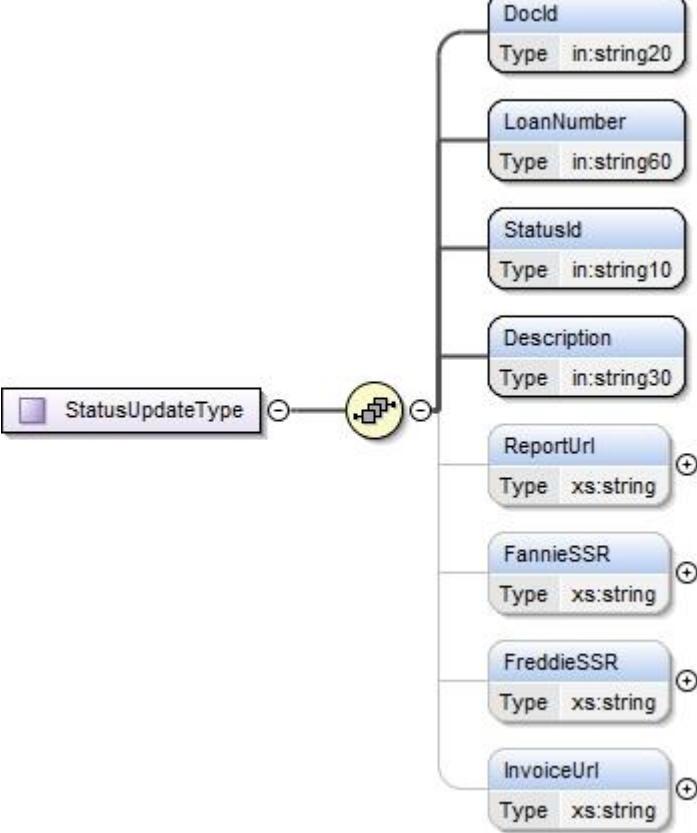
Diagram



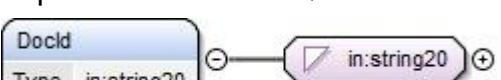
Type	StatusUpdateType
Properties	content: complex
Model	DocId , LoanNumber , StatusId , Description , ReportUrl{0,1} , FannieSSR{0,1} , FreddieSSR{0,1} , InvoiceUrl{0,1}
Children	Description, DocId, FannieSSR, FreddieSSR, InvoiceUrl, LoanNumber, ReportUrl, StatusId
Instance	<pre> <StatusUpdate xmlns="http://fncinc.com/CHQ"> <DocId>{1,1}</DocId> <LoanNumber>{1,1}</LoanNumber> <StatusId>{1,1}</StatusId> <Description>{1,1}</Description> <ReportUrl>{0,1}</ReportUrl> <FannieSSR>{0,1}</FannieSSR> <FreddieSSR>{0,1}</FreddieSSR> <InvoiceUrl>{0,1}</InvoiceUrl> </StatusUpdate> </pre>

Business and Processing Rules

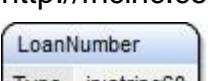
Complex Type StatusUpdateType

Namespace	http://fncinc.com/CHQ
Diagram	 <pre> classDiagram class StatusUpdateType class DocId { Type: string20 } class LoanNumber { Type: string60 } class StatusId { Type: string10 } class Description { Type: string30 } class ReportUrl { Type: xs:string } class FannieSSR { Type: xs:string } class FreddieSSR { Type: xs:string } class InvoiceUrl { Type: xs:string } StatusUpdateType < -- DocId StatusUpdateType < -- LoanNumber StatusUpdateType < -- StatusId StatusUpdateType < -- Description StatusUpdateType < -- ReportUrl StatusUpdateType < -- FannieSSR StatusUpdateType < -- FreddieSSR StatusUpdateType < -- InvoiceUrl </pre>
Used by	Elements RetrieveOrderStatusRs/StatusUpdate, StatusUpdateRq/StatusUpdate
Model	DocId , LoanNumber , StatusId , Description , ReportUrl{0,1} , InvoiceUrl{0,1}
Children	Description, DocId, InvoiceUrl, LoanNumber, ReportUrl, StatusId

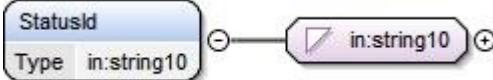
Element StatusUpdateType / DocId

Namespace	http://fncinc.com/CHQ
Diagram	 <pre> classDiagram class DocId { Type: string20 } DocId < -- in:string20 </pre>
Type	string20
Properties	content: simple minOccurs: 1
Facets	maxLength 20

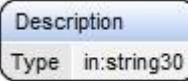
Element StatusUpdateType / LoanNumber

Namespace	http://fncinc.com/CHQ
Diagram	 <pre> classDiagram class LoanNumber { Type: string60 } LoanNumber < -- in:string60 </pre>
Type	String60
Properties	content: simple minOccurs: 1

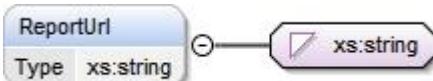
Element StatusUpdateType/StatusId

Namespace	http://fncinc.com/CHQ	
Annotations	StatusID	Description
Diagram		
Type	string10	
Properties	content:	simple
	minOccurs:	1
Facets	maxLength	10

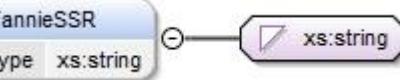
Element StatusUpdateType/Description

Namespace	http://fncinc.com/CHQ	
Diagram		
Type	String30	
Properties	content:	simple
	minOccurs:	1

Element StatusUpdateType/ReportUrl

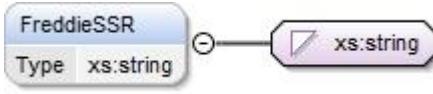
Namespace	http://fncinc.com/CHQ	
Annotations	URL linking to order related documents, provided when the order is closed (L status)	
Diagram		
Type	xs:string	
Properties	content:	simple
	minOccurs:	0

Element StatusUpdateType/FannieSSR

Namespace	http://fncinc.com/CHQ	
Annotations	Flow Based Fannie and Freddie SSR	
Diagram		
Type	xs:string	
Properties	content:	simple
	minOccurs:	0

Element StatusUpdateType/FreddieSSR

Namespace	http://fncinc.com/CHQ	
Annotations	Flow Based Fannie and Freddie SSR	

Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Sample Response XML

[1] Sample XML of Status Update upon successful order completion:

```
<?xml version="1.0" encoding="utf-8"?>
<RetrieveOrderStatusRs xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header>
    <Code xmlns="http://fncinc.com/Integration.xsd">OK</Code>
  </Header>
  <StatusUpdate>
    <DocId>20121212-0009-2</DocId>
    <LoanNumber>876654</LoanNumber>
    <StatusId>LA</StatusId>
    <Description>APPROVED - AS IS</Description>
    <ReportUrl>https://collateralhq.fncinc.com/default.aspx?pagId=streamfile&fileId=54561552-EFA8-4763-AA7C-522C3A67DDDC</ReportUrl>
    <UCDPRReadyFileURL>https://collateralhq.fncinc.com/default.aspx?pagId=viewUCDPRReadyFile&docID=20121212-0009-2&fileId=5451b552-efa8-4763-aa7c-522c3a67dddc</UCDPRReadyFileURL>
    <UCDPElements>
      <FannieStatus>IS0000</FannieStatus>
      <FreddieStatus>IS0000</FreddieStatus>
      <UCDPID>11001E344G</UCDPID>
      <SubmissionID>2012CLGENF6SHPIL988N</SubmissionID>
      <RecentSubmission>2012-12-12T09:34:29</RecentSubmission>
      <RecentFinding>2012-12-12T09:41:13</RecentFinding>
      <GateWayStatus>Complete</GateWayStatus>
      <GatewayNote>Complete</GatewayNote>
    </UCDPElements>
    <IsPreDelivery>true</IsPreDelivery>
    <AssociatedFiles FileType="Review Scope">
      <FileUrl>https://collateralhq.fncinc.com/default.aspx?pagId=streamfile&fileId=ac311999-4f77-43f0-a107-56927fc83291/</FileUrl>
      <AssociatedFiles FileType="Valuation Independence Letter">
        <FileUrl>https://collateralhq.fncinc.com/default.aspx?pagId=streamfile&fileId=7e2cb2f1-3864-1c1c-ab35-11766b245bcd/</FileUrl>
        <AssociatedFiles FileType="Customer Invoice (System)">
          <FileUrl>https://collateralhq.fncinc.com/default.aspx?pagId=streamfile&fileId=e57c36e2-510b-4001-b139-365a913dd4c9/</FileUrl>
        </AssociatedFiles>
      </AssociatedFiles>
    </AssociatedFiles>
  </StatusUpdate>
</RetrieveOrderStatusRs>
```

[2] Sample XML of Status Update Response:

```
<?xml version="1.0" encoding="utf-8"?>
<RetrieveOrderStatusRs xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header>
    <Code xmlns="http://fncinc.com/Integration.xsd">OK</Code>
  </Header>
  <StatusUpdate>
    <DocId>20100916-9667-1</DocId>
    <LoanNumber>test1234</LoanNumber>
    <StatusId>H</StatusId>
    <Description>ON HOLD</Description>
    <IsPreDelivery>false</IsPreDelivery>
  </StatusUpdate>
</RetrieveOrderStatusRs>
```

Update Order Status

:: Update Order Status

The Update Order Status touch point originates from the LOS. The request is triggered when the LOS needs to update the status of an existing order in CMS.net.

Actors

CMS	This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.
------------	---

Client System	System responsible for data management and originating orders
----------------------	---

Preconditions – The current status of the order must adhere to the Business and Processing Rule listed below.

Post Conditions – Update Order Status is originated from Client System and processed in CMS.net System.

► Main Scenario

1. LOS sends Update Order Status request to CMS
2. CMS System receives Update Order Status request and validates XML
3. CMS System verifies that current status is valid to be updated. See below for valid statuses.
4. CMS System sends response to communicate successful receipt of XML.
5. CMS system will process order through assignment.

► Alternate Scenarios

1. Can't connect to CMS – System Error
2. CMS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. CMS sends a failure acknowledgement – an application error occurred.
4. CMS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

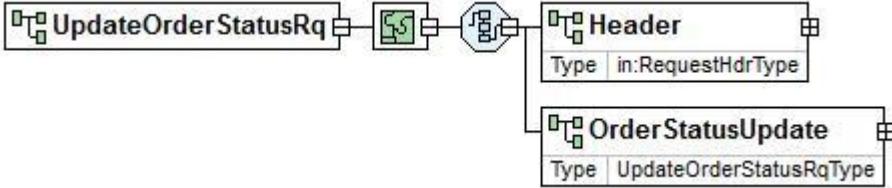
File Post URL

UAT URL: <https://collateralhq.fncinc.com/interface/losrequest.ashx>

Production URL: <https://www.collateralhq.com/interface/losrequest.ashx>

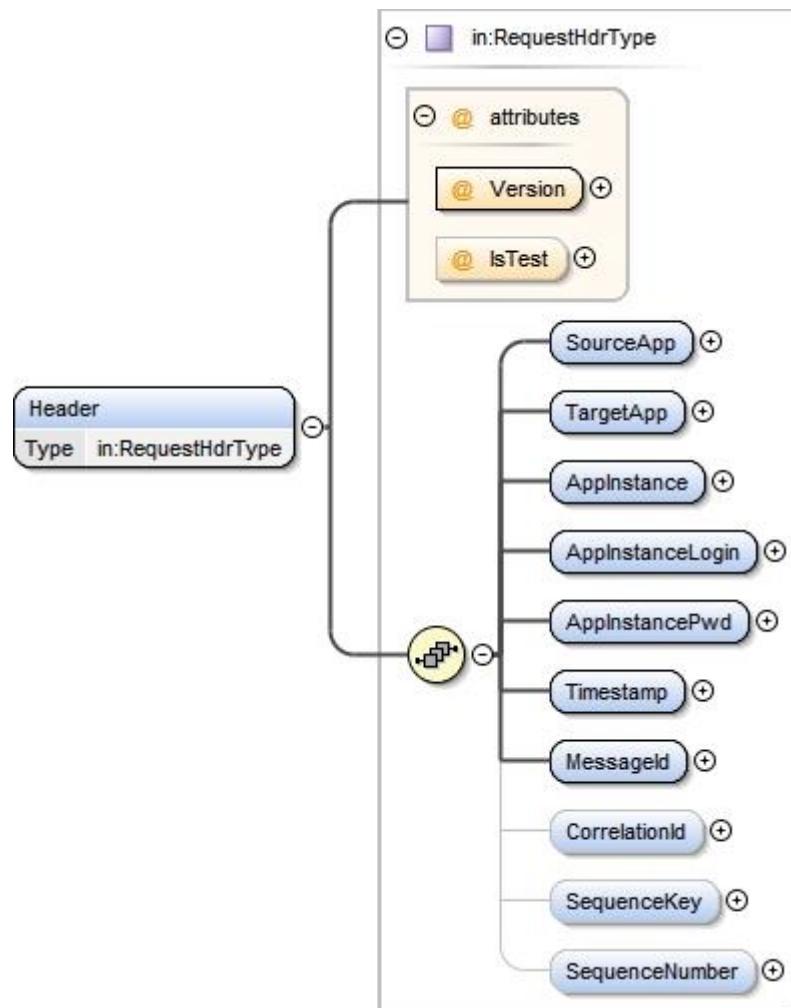
XML Structure Overview

Element **UpdateOrderStatusRq**

Namespace	http://fncinc.com/CHQ
Annotations	A Release from Disclosure request from LOS.
Diagram	 <pre> classDiagram class UpdateOrderStatusRq class Header { <<RequestHdrType>> } class OrderStatusUpdate { <<UpdateOrderStatusRqType>> } UpdateOrderStatusRq "2" --> "1" Header Header "1" --> "1" RequestHdrType UpdateOrderStatusRq "2" --> "1" OrderStatusUpdate OrderStatusUpdate "1" --> "1" UpdateOrderStatusRqType </pre>
Properties	content: complex
Instance	<pre> <UpdateOrderStatusRq> <Header IsTest="false" Version="1.0">{1,1}</Header> <OrderStatusUpdate>{1,1}</OrderStatusUpdate> </UpdateOrderStatusRq> </pre>

Element **UpdateOrderStatus/Header**

Namespace	http://fncinc.com/CHQ
-----------	---

Diagram


Type	RequestHdrType
------	----------------

Properties	content: complex
------------	------------------

Instance	<pre><Header IsTest="false" Version="1.0"> <SourceApp>{1,1}</SourceApp> <TargetApp>{1,1}</TargetApp> <ApplInstance>{1,1}</ApplInstance> <ApplInstanceLogin>{1,1}</ApplInstanceLogin> <ApplInstancePwd>{1,1}</ApplInstancePwd> <Timestamp>{1,1}</Timestamp> <MessageId>{1,1}</MessageId> <CorrelationId>{0,1}</CorrelationId> <SequenceKey>{0,1}</SequenceKey> <SequenceNumber>{0,1}</SequenceNumber> </Header></pre>
----------	--

Attributes	QName	Type	Fixed	Default	Use	Annotation
	IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.
	Version	xs:string	1.0		required	Based on schema

Element RequestHdrType / SourceApp

Namespace	http://fncinc.com/Integration.xsd
-----------	-----------------------------------

Annotations	The name of the system sending message
-------------	--

Diagram	
---------	---

Type	xs:string
------	-----------

Properties	content: simple
------------	-----------------

Element RequestHdrType / TargetApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The Name of the system receiving the message
Diagram	
Type	string20
Properties	content: simple
Facets	maxLength 20

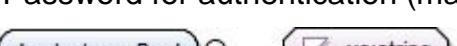
Element RequestHdrType / ApplInstance

Namespace	http://fncinc.com/Integration.xsd
Annotations	An identifier obtained from FNC
Diagram	
Type	string10
Properties	content: simple
Facets	maxLength 10

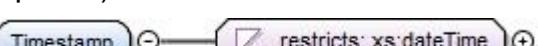
Element RequestHdrType / ApplInstanceLogin

Namespace	http://fncinc.com/Integration.xsd
Annotations	User name for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / ApplInstancePwd

Namespace	http://fncinc.com/Integration.xsd
Annotations	Password for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / Timestamp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The timestamp from sending system Formatting: ISO8601; sql type 126; yyyy-mm-ddThh:mi:ss.mmm (no spaces)
Diagram	
Type	xs:dateTime
Properties	content: simple

Element RequestHdrType / MessageId

Namespace	http://fncinc.com/Integration.xsd
Annotations	A unique identifier for the XML. Each unique message must have a unique MessageId.
Diagram	
Type	GUID
Properties	content: simple
Facets	<p>pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}</p>

Element RequestHdrType / CorrelationId

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	<p>content: simple</p> <p>minOccurs: 0</p>
Facets	<p>pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}</p>

Element RequestHdrType / SequenceKey

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	<p>content: simple</p> <p>minOccurs: 0</p>
Facets	<p>pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}</p>

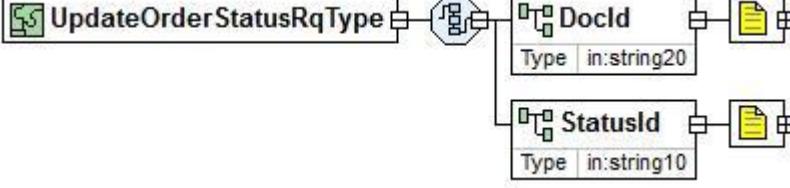
Element RequestHdrType / SequenceNumber

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	xs:int

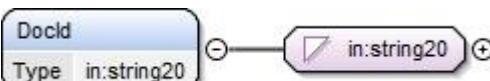
Properties	content: simple minOccurs: 0
------------	---------------------------------

UpdateOrderStatusRq Node Elements

Element [UpdateOrderStatusRq/OrderStatusUpdate](#)

Namespace	http://fncinc.com/CHQ
Diagram	 <pre> classDiagram class UpdateOrderStatusRqType { <<OrderTrackingType>> } class DocId { <<in:string20>> } class StatusId { <<in:string10>> } UpdateOrderStatusRqType "1..1" *-- "1..1" DocId UpdateOrderStatusRqType "1..1" *-- "1..1" StatusId </pre>
Type	OrderTrackingType
Properties	content: complex minOccurs: 1 maxOccurs: 1
Instance	<OrderStatusUpdate> <DocId>{1,1}</DocId> <StatusId>{1,1}</StatusId> </OrderStatusUpdate>

Element [UpdateOrderStatusRqType/DocId](#)

Namespace	http://fncinc.com/CHQ
Annotations	A tracking number used in CMS. DocId is also used for later status updates.
Diagram	 <pre> classDiagram class DocId { <<in:string20>> } DocId "1..1" *-- "1..1" in:string20 </pre>
Type	string20
Properties	content: simple minOccurs: 1
Facets	maxLength 20

Element [UpdateOrderStatusRqType/StatusId](#)

Namespace	http://fncinc.com/CHQ
Annotations	The status code to which the order is being changed.
Diagram	 <pre> classDiagram class StatusId { <<in:string10>> } StatusId "1..1" *-- "1..1" in:string10 </pre>
Type	String10
Properties	content: simple minOccurs: 1

Sample Post XML

```

<?xml version="1.0" encoding="utf-8"?>
<UpdateOrderStatusRq xmlns="http://fncinc.com/CHQ" xmlns:xsd="http://www.w3.org/2001/XMLSchema"
                       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Header>
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">LOS</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">CHQ</TargetApp>
    <ApplInstance xmlns="http://fncinc.com/Integration.xsd">fncinc</ApplInstance>
    <ApplInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</ApplInstanceLogin>
    <ApplInstancePwd xmlns="http://fncinc.com/Integration.xsd">abcbank</ApplInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2013-09-05T07:33:49.8297321-07:00</Timestamp>
    <MessageId xmlns="http://fncinc.com/Integration.xsd">11bd67b2-51b2-4d69-834a-335c6742c398</MessageId>
  </Header>
  <OrderStatusUpdate>
    <DocId>20110729-1128-1</DocId>
    <StatusId>N</StatusId>
  </OrderStatusUpdate>
</UpdateOrderStatusRq>

```

Business and Processing Rules

See below for the update rules.

The order can be cancelled with any of these cancel status

CANCELLED - GENERAL (C)

CANCELLED - DUPLICATE REQUEST (CD)

CANCELLED - REFUND DUE (CE)

CANCELLED - BY REQUEST (CR)

if the order is in any of the below statuses:

?4	WAITING FOR PAYMENT
A	ASSIGNED TO PROVIDER
AC	PROVIDER ACCEPTS W/CONDITION
H	ON HOLD
I	INCOMING (NEW)
LD	DECLINED
M	ACCEPTED
N	DRAFT NOT ACCEPTABLE
OH	ON HOLD - WAITING FOR APPROVAL
R1	REJECTED ONLINE BY PROVIDER
R2	REJECTED-NO PROVIDER RESPONSE
W	WITH REVIEWER
WH	WHOLESALE - WAITING FOR APSL
XD	EXCEPTION - DUPLICATE ORDER
XE	ESCALATED REVIEW
XM	EXCEPTION - MANUAL ASSIGN
XO	CUSTOMER REQUESTED REVIEW
XP	READY FOR REVIEW
XQ	EXCEPTION - PROCESSOR
XR	EXCEPTION - REVIEWER
XU	EXCEPTION – UCDP

Order status can be changed to DRAFT NOT ACCEPTABLE (N) as long as the current status is one of the following and Draft Received date is populated with a date:

H	ON HOLD
LA	APPROVED - AS IS
LC	APPROVED - WITH CONDITIONS
OH	ON HOLD - WAITING FOR APPROVAL
W	WITH REVIEWER

XE	ESCALATED REVIEW
XO	CUSTOMER REQUESTED REVIEW
XP	READY FOR REVIEW
XQ	EXCEPTION - PROCESSOR
XR	EXCEPTION - REVIEWER
XU	EXCEPTION - UCDP

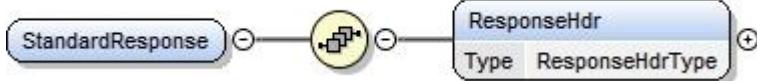
Order status can be changed to APPROVED – AS IS (LA) as long as the current status is one of the following:

W	WITH REVIEWER
XP	READY FOR REVIEW
XR	EXCEPTION - REVIEWER

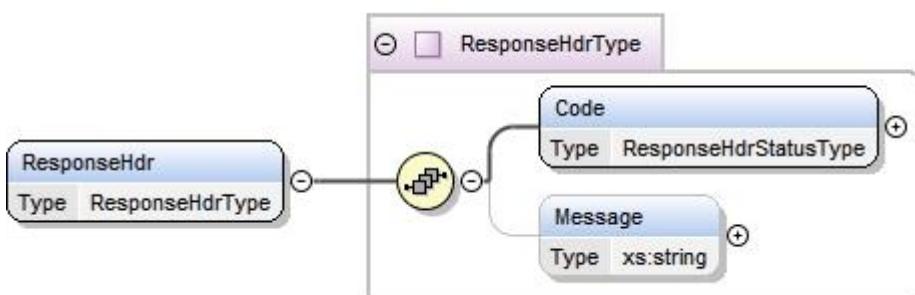
Standard LOS Response

CMS expects a response from the LOS. The response may also return a processing error and message.

Element [StandardResponse](#)

Namespace	http://fncinc.com/Integration.xsd
Annotations	The element sent for an simple response
Diagram	
Properties	content: complex
Model	ResponseHdr
Children	ResponseHdr
Instance	<pre><StandardResponse> <ResponseHdr>{1,1}</ResponseHdr> </StandardResponse></pre>

Element [StandardResponse/ResponseHdr](#)

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	ResponseHdrType
Properties	content: complex
Model	Code , Message{0,1}
Children	Code, Message
Instance	<pre><ResponseHdr> <Code>{1,1}</Code> <Message>{0,1}</Message> </ResponseHdr></pre>

Element [ResponseHdrType / Code](#)

Namespace	http://fncinc.com/Integration.xsd
-----------	---

Diagram	 ResponseHdrStatusType								
Type	ResponseHdrStatusType								
Properties	content: simple								
Facets	<table border="1"> <tr> <td>enumeration</td><td>OK</td></tr> <tr> <td>enumeration</td><td>ApplicationError</td></tr> <tr> <td>enumeration</td><td>SystemError</td></tr> <tr> <td>enumeration</td><td>ReferentialIntegrityError</td></tr> </table>	enumeration	OK	enumeration	ApplicationError	enumeration	SystemError	enumeration	ReferentialIntegrityError
enumeration	OK								
enumeration	ApplicationError								
enumeration	SystemError								
enumeration	ReferentialIntegrityError								

Element ResponseHdrType / Message

Namespace	http://fncinc.com/Integration.xsd				
Diagram	 xs:string				
Type	xs:string				
Properties	<table border="1"> <tr> <td>content:</td><td>simple</td></tr> <tr> <td>minOccurs:</td><td>0</td></tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Sample XML

A simplified version of Response XML is below:

```
<StandardResponse xsi:schemaLocation="http://fncinc.com/CHQ CMS.xsd"
xmlns:in="http://fncinc.com/Integration.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
  <ResponseHdr>
    <Code>OK</Code>
    <Message/>
  </ResponseHdr>
</StandardResponse>
```

Order Acceptance Touchpoint

:: Order Acceptance Post

The Order Acceptance Touchpoint originates from CMS. This update is triggered when the order's status is changed to ACCEPTED in CMS. Order acceptance updates are transferred from CMS to the Client System (ordering system).

Actors

CMS This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.

Client System System responsible for data management and originating orders

Preconditions – URL for Client system is completed in CMS

Post Conditions – Order Acceptance is sent from CMS and processed in Client System.

► Main Scenario

1. Order's status changes to ACCEPTED.
2. CMS sends Order Acceptance update to Client System.
3. Client System receives Order Acceptance and validates XML.

4. Client System sends response to communicate successful receipt of XML.
5. Client System updates order in its system with updated order information.

► **Alternate Scenarios**

1. Can't connect to LOS – System Error
2. LOS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. LOS sends a failure acknowledgement – an application error occurred.
4. LOS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

XML Structure Overview

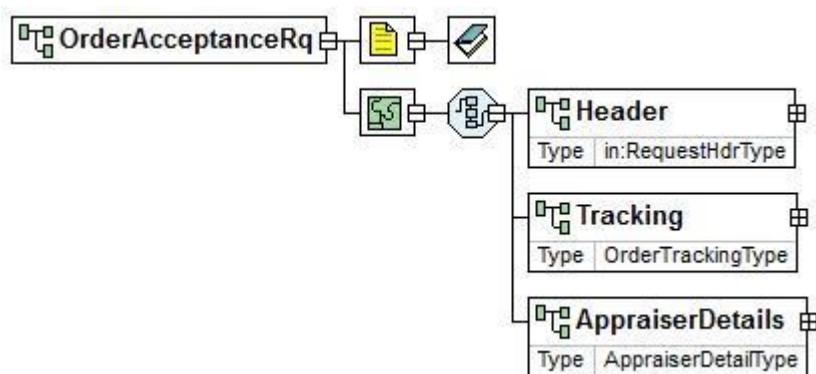
OrderAcceptanceRq Node

Element OrderAcceptanceRq

Namespace <http://fncinc.com/CHQ>

Annotations The Order Acceptance Touch Point originates from CHQ. This update is triggered when the order's status is changed to ACCEPTED in CHQ. Order acceptance updates are transferred from CHQ to the Client System (ordering system).

Diagram



Properties

content: **complex**

Instance

```

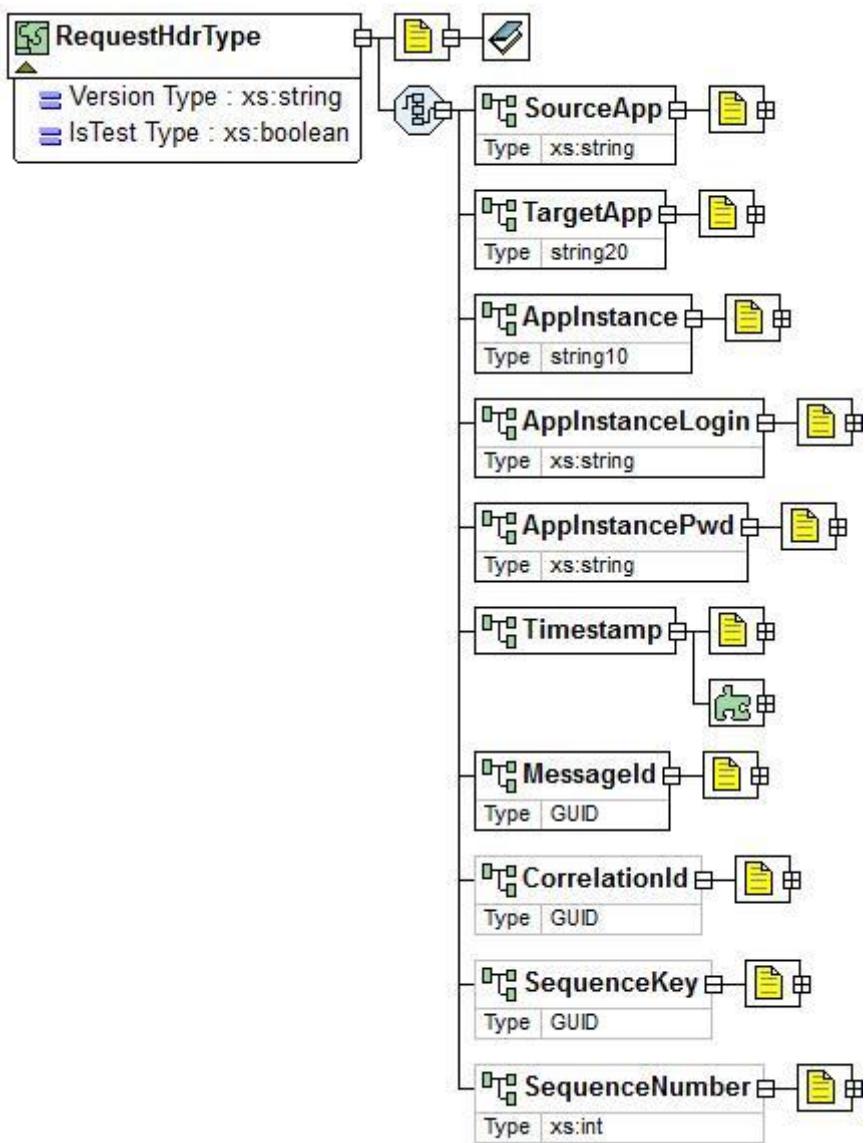
<OrderAcceptanceRq>
  <Header>{1,1}</Header>
  <Tracking>{1,1}</Tracking>
  <AppraiserDetails>{1,1}</AppraiserDetails>
</OrderAcceptanceRq>
  
```

Header Node

Element StatusUpdateRq / Header

Namespace <http://fncinc.com/CHQ>

Annotations SourceApp = CHQ
TargetApp = LOS

Diagram

Type RequestHdrType

Properties content: complex

Instance

```

<Header IsTest="false" Version="1.0">
    <SourceApp>{1,1}</SourceApp>
    <TargetApp>{1,1}</TargetApp>
    <ApplInstance>{1,1}</ApplInstance>
    <ApplInstanceLogin>{1,1}</ApplInstanceLogin>
    <ApplInstancePwd>{1,1}</ApplInstancePwd>
    <Timestamp>{1,1}</Timestamp>
    <MessageId>{1,1}</MessageId>
    <CorrelationId>{0,1}</CorrelationId>
    <SequenceKey>{0,1}</SequenceKey>
    <SequenceNumber>{0,1}</SequenceNumber>
</Header>
    
```

Attributes

QName	Type	Fixed	Default	Use	Annotation
IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.
Version	xs:string	1.0		required	Based on schema

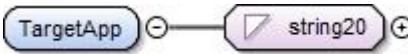
Element Header/SourceApp
Namespace http://fncinc.com/Integration.xsd

Annotations The name of the system sending message

Diagram


Type	xs:string
Properties	content: simple

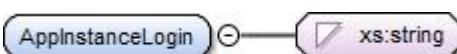
Element Header/TargetApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The Name of the system receiving the message
Diagram	
Type	string20
Properties	content: simple
Facets	maxLength 20

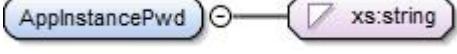
Element Header/AppInstance

Namespace	http://fncinc.com/Integration.xsd
Annotations	An identifier obtained from FNC
Diagram	
Type	string10
Properties	content: simple
Facets	maxLength 10

Element Header/AppInstanceLogin

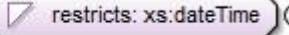
Namespace	http://fncinc.com/Integration.xsd
Annotations	User name for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element Header/AppInstancePwd

Namespace	http://fncinc.com/Integration.xsd
Annotations	Password for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element Header/Timestamp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The timestamp from sending system Formatting: ISO8601; sql type 126; yyyy-mm-ddThh:mi:ss.mmm (no spaces)

Diagram	 
Type	xs:dateTime
Properties	content: simple

Element Header/Messageld

Namespace	http://fncinc.com/Integration.xsd
Annotations	A unique identifier for the XML. Each unique message must have a unique Messageld.
Diagram	 
Type	GUID
Properties	content: simple
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

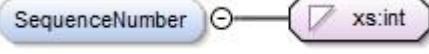
Element Header/CorrelationId

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	 
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element Header/SequenceKey

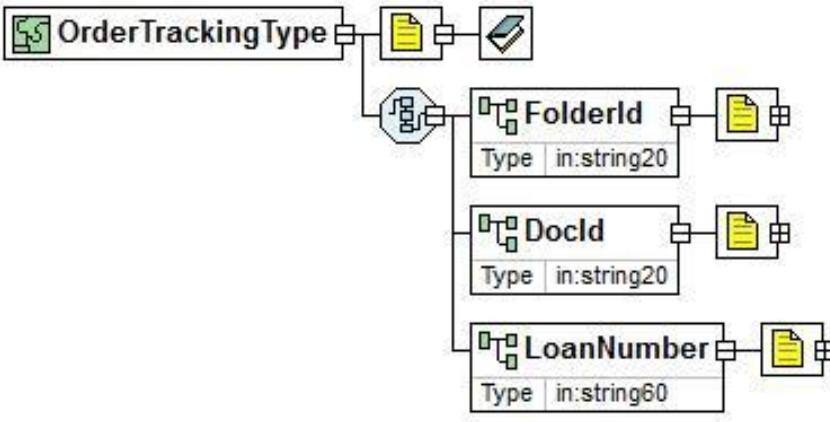
Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	 
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element Header/SequenceNumber

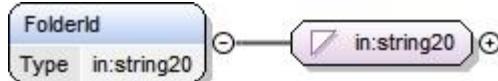
Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	xs:int
Properties	content: simple minOccurs: 0

Tracking Node

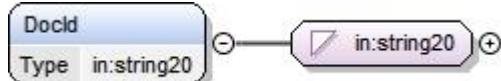
Element OrderAcceptanceRq/Tracking

Namespace	http://fncinc.com/CHQ
Diagram	
Type	OrderTrackingType
Properties	content: complex minOccurs: 1 maxOccurs: 1
Instance	<pre><Tracking> <FolderId>{1,1}</FolderId> <DocId>{1,1}</DocId> <LoanNumber>{1,1}</LoanNumber> </Tracking></pre>

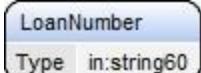
Element Tracking/FolderId

Namespace	http://fncinc.com/CHQ
Annotations	A tracking number used in CHQ.
Diagram	
Type	string20
Properties	content: simple minOccurs: 1
Facets	maxLength 20

Element Tracking/DocId

Namespace	http://fncinc.com/CHQ
Annotations	A tracking number used in CMS. DocId is also used for later status updates.
Diagram	
Type	string20
Properties	content: simple minOccurs: 1
Facets	maxLength 20

Element [Tracking/LoanNumber](#)

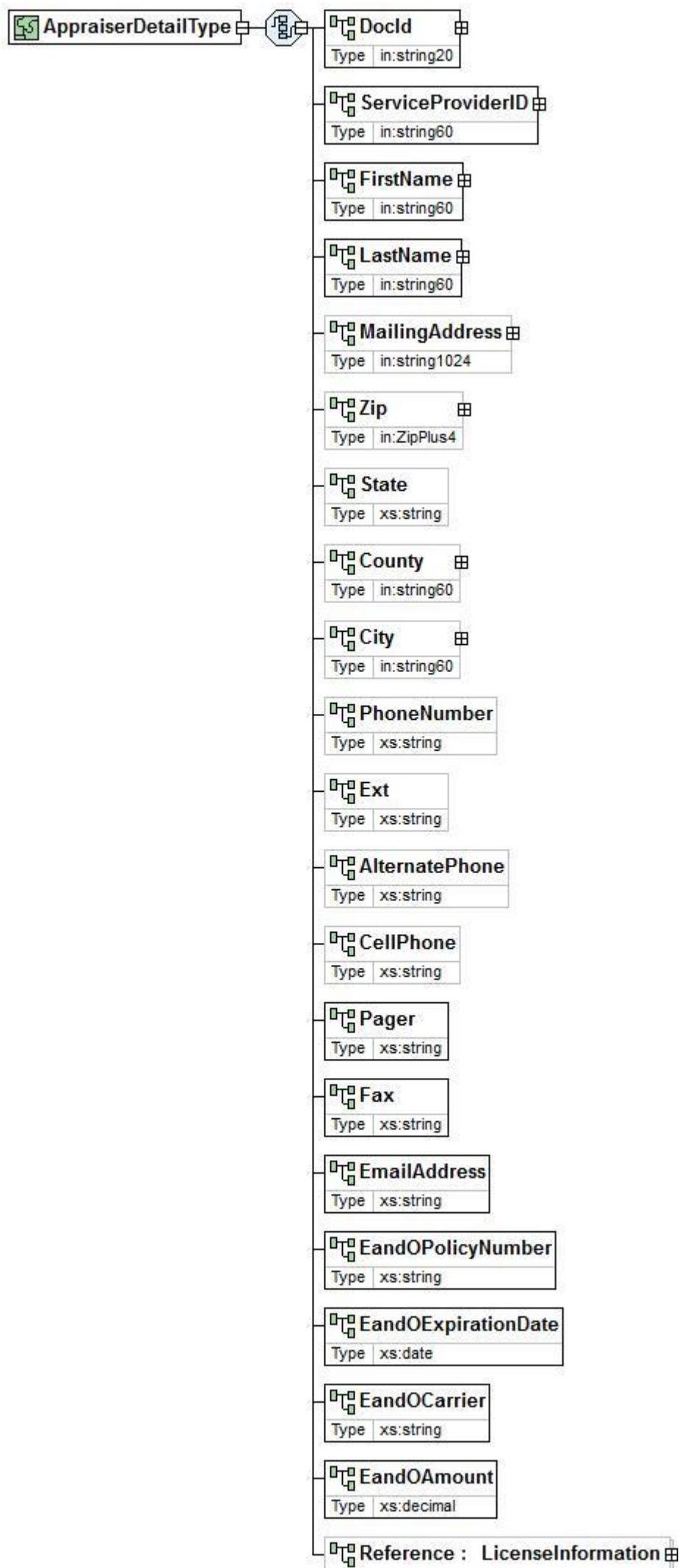
Namespace	http://fncinc.com/CHQ
Annotations	Loan Number; (Echoing back the received Loan Number)
Diagram	
Type	String60
Properties	content: simple minOccurs: 1

Appraiser Details Node

Element [OrderAcceptanceRq/AppraiserDetails](#)

Namespace	http://fncinc.com/CHQ
-----------	-----------------------

Diagram



Type	AppraiserDetailType
Properties	content: complex

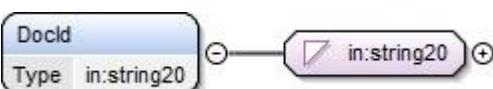
Instance

```

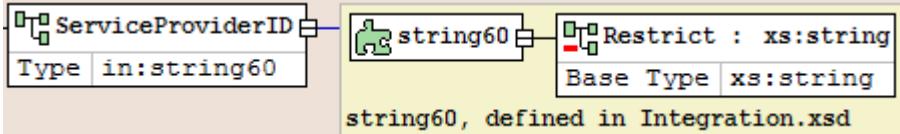
<AppraiserDetails>
    <DocId>{1,1}</DocId>
    <ServiceProviderID>{1,1}</ServiceProviderID>
    <FirstName>{1,1}</FirstName>
    <LastName>{1,1}</LastName>
    <MailingAddress>{0,1}</MailingAddress>
    <Zip>{0,1}</Zip>
    <State>{0,1}</State>
    <County>{0,1}</County>
    <City>{0,1}</City>
    <PhoneNumber>{0,1}</PhoneNumber>
    <Ext>{0,1}</Ext>
    <AlternatePhone>{0,1}</AlternatePhone>
    <CellPhone>{0,1}</CellPhone>
    <Pager>{1}</Pager>
    <Fax>{1}</Fax>
    <EmailAddress>{1}</EmailAddress>
    <EandOPolicyNumber>{1}</EandOPolicyNumber>
    <EandOExpirationDate>{1}</EandOExpirationDate>
    <EandOCarrier>{1}</EandOCarrier>
    <EandOAmount>{1}</EandOAmount>
    <LicenseInformation>{0,*}</LicenseInformation>
</AppraiserDetails>

```

Element AppraiserDetails / DocId

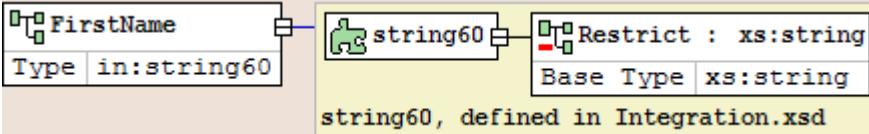
Namespace	http://fncinc.com/CHQ
Annotations	DocId of the assigned appraiser.
Diagram	
Type	string20
Properties	content: simple minOccurs: 1
Facets	maxLength 20

Element AppraiserDetails/ServiceProviderID

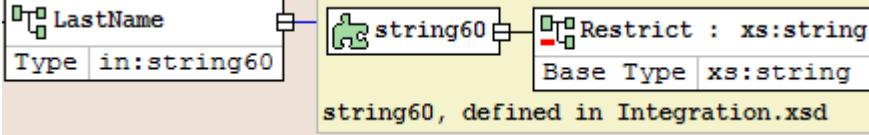
Namespace	http://fncinc.com/CHQ
Annotations	Customer defined service provider ID.
Diagram	
Type	string60
Properties	content: simple minOccurs: 1
Facets	maxLength 60

Element AppraiserDetails/FirstName

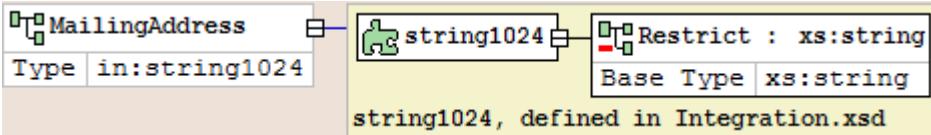
Namespace	http://fncinc.com/CHQ
Annotations	Service provider first name.

Diagram	
Type	string60
Properties	content: simple minOccurs: 1
Facets	maxLength 60

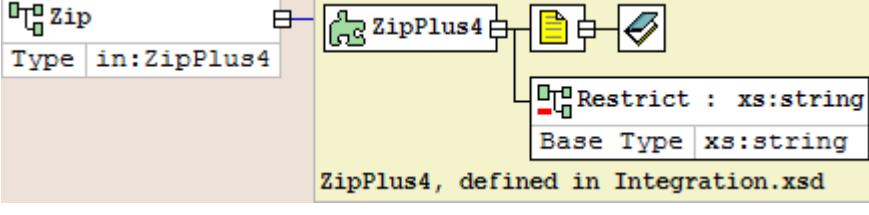
Element AppraiserDetails/LastName

Namespace	http://fncinc.com/CHQ
Annotations	Service provider last name.
Diagram	
Type	string60
Properties	content: simple minOccurs: 1
Facets	maxLength 60

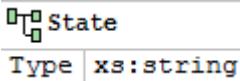
Element AppraiserDetails/MailingAddress

Namespace	http://fncinc.com/CHQ
Annotations	Service provider's mailing address.
Diagram	
Type	string1024
Properties	content: simple minOccurs: 0
Facets	maxLength 1024

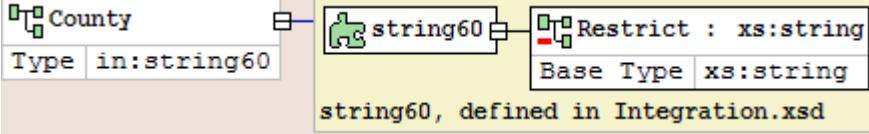
Element AppraiserDetails/Zip

Namespace	http://fncinc.com/CHQ
Annotations	Service provider's address zip code.
Diagram	
Type	ZipPlus4
Properties	content: simple minOccurs: 0

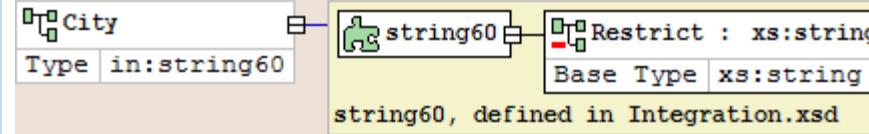
Element **AppraiserDetails/State**

Namespace	http://fncinc.com/CHQ
Annotations	Service provider's address state.
Diagram	
Type	string
Properties	content: simple minOccurs: 0

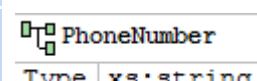
Element **AppraiserDetails/County**

Namespace	http://fncinc.com/CHQ
Annotations	Service provider's address county.
Diagram	
Type	string60
Properties	content: simple minOccurs: 0

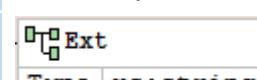
Element **AppraiserDetails/City**

Namespace	http://fncinc.com/CHQ
Annotations	Service provider's address city.
Diagram	
Type	string60
Properties	content: simple minOccurs: 0

Element **AppraiserDetails/PhoneNumber**

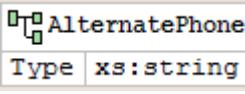
Namespace	http://fncinc.com/CHQ
Annotations	Service provider's phone number.
Diagram	
Type	string
Properties	content: simple minOccurs: 0

Element **AppraiserDetails/Ext**

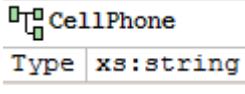
Namespace	http://fncinc.com/CHQ
Annotations	Service provider's phone number extension.
Diagram	
Type	string
Properties	content: simple

	minOccurs: 0
--	--------------

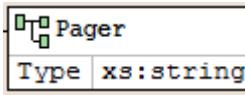
Element AppraiserDetails/AlternatePhone

Namespace	http://fncinc.com/CHQ
Annotations	Service provider's alternate phone number.
Diagram	
Type	string
Properties	content: simple minOccurs: 0

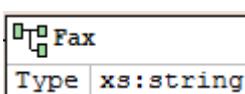
Element AppraiserDetails/CellPhone

Namespace	http://fncinc.com/CHQ
Annotations	Service provider's cell phone number.
Diagram	
Type	string
Properties	content: simple minOccurs: 0

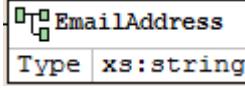
Element AppraiserDetails/Pager

Namespace	http://fncinc.com/CHQ
Annotations	Service provider's pager number.
Diagram	
Type	string
Properties	content: simple minOccurs: 0

Element AppraiserDetails/Fax

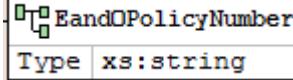
Namespace	http://fncinc.com/CHQ
Annotations	Service provider's fax number.
Diagram	
Type	string
Properties	content: simple minOccurs: 0

Element AppraiserDetails/EmailAddress

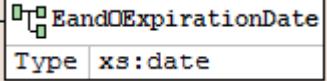
Namespace	http://fncinc.com/CHQ
Annotations	Service provider's email address.
Diagram	
Type	string

Properties	content: simple minOccurs: 0
------------	---------------------------------

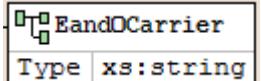
Element AppraiserDetails/EandOPolicyNumber

Namespace	http://fncinc.com/CHQ
Annotations	Service provider's E&O insurance policy number.
Diagram	 Type xs:string
Type	string
Properties	content: simple minOccurs: 0

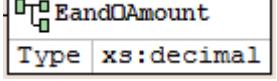
Element AppraiserDetails/EandOExpirationDate

Namespace	http://fncinc.com/CHQ
Annotations	Service provider's E&O insurance policy expiration date.
Diagram	 Type xs:date
Type	date
Properties	content: simple minOccurs: 0

Element AppraiserDetails/EandOCarrier

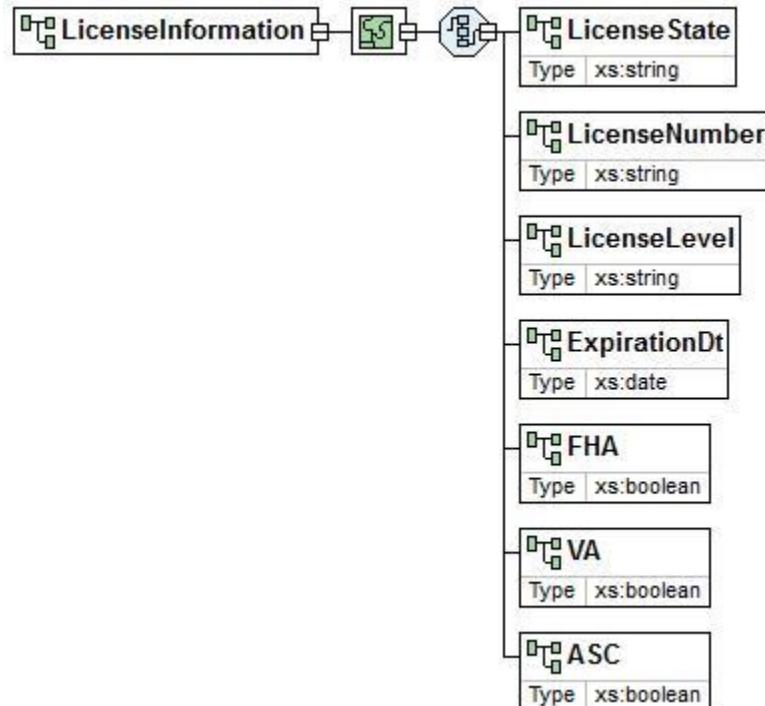
Namespace	http://fncinc.com/CHQ
Annotations	Service provider's E&O insurance policy carrier.
Diagram	 Type xs:string
Type	string
Properties	content: simple minOccurs: 0

Element AppraiserDetails/EandOAmount

Namespace	http://fncinc.com/CHQ
Annotations	Service provider's E&O insurance policy amount.
Diagram	 Type xs:decimal
Type	decimal
Properties	content: simple minOccurs: 0

License Information
Element AppraiserDetails/LicenseInformation

Namespace	http://fncinc.com/CHQ
-----------	-----------------------

Diagram

Type Reference LicenseInformation

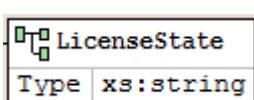
Properties content: complex

Instance

```

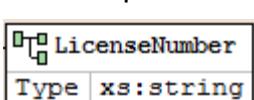
<LicenseInformation>
    <LicenseState>AL</LicenseState>
    <LicenseNumber>11111</LicenseNumber>
    <LicenseLevel>Certified General</LicenseLevel>
    <ExpirationDt>2011-11-25</ExpirationDt>
    <FHA>false</FHA>
    <VA>false</VA>
    <ASC>false</ASC>
</LicenseInformation>
  
```

Element LicenseInformation/LicenseState
Namespace http://fncinc.com/CHQ

Annotations Service provider's license state.

Type string

Properties content: simple
minOccurs: 0

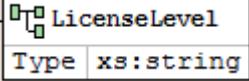
Element LicenseInformation/LicenseNumber
Namespace http://fncinc.com/CHQ

Annotations Service provider's license number.

Type string

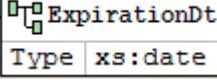
Properties content: simple
minOccurs: 0

Element LicenseInformation/LicenseLevel
Namespace http://fncinc.com/CHQ

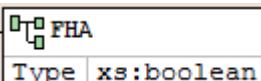
Annotations Service provider's license level.

Diagram	
Type	string
Properties	content: simple minOccurs: 0

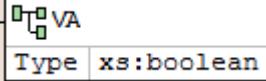
Element LicenseInformation/ExpirationDt

Namespace	http://fncinc.com/CHQ
Annotations	Service provider's license expiration date.
Diagram	
Type	date
Properties	content: simple minOccurs: 0

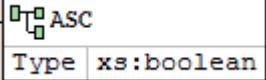
Element LicenseInformation/FHA

Namespace	http://fncinc.com/CHQ
Annotations	Attribute to show if the service provider is licensed to complete FHA loans.
Diagram	
Type	boolean
Properties	content: simple minOccurs: 0

Element LicenseInformation/VA

Namespace	http://fncinc.com/CHQ
Annotations	Attribute to show if the service provider is licensed to complete VA loans.
Diagram	
Type	boolean
Properties	content: simple minOccurs: 0

Element LicenseInformation/ASC

Namespace	http://fncinc.com/CHQ
Annotations	Attribute to show if the service provider is approved from the ASC.gov website.
Diagram	
Type	boolean
Properties	content: simple minOccurs: 0

Sample XML

A sample XML of the Order Acceptance post:

```

<?xml version="1.0" encoding="utf-8"?>
<OrderAcceptanceRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header Version="1.0">
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">CHQ</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">LOS</TargetApp>
    <ApplInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</ApplInstance>
    <ApplInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</ApplInstanceLogin>
    <ApplInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123</ApplInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2013-10-15T16:11:33.466735-05:00</Timestamp>
  </Header>
  <Tracking>
    <FolderId>20131015-0016</FolderId>
    <DocId>20131015-0016-1</DocId>
    <LoanNumber>222</LoanNumber>
  </Tracking>
  <AppraiserDetails>
    <DocId>20131015-0016-1</DocId>
    <ServiceProviderID>Jones1</ServiceProviderID>
    <FirstName>Jean</FirstName>
    <LastName>Jones</LastName>
    <MailingAddress>123 Main St</MailingAddress>
    <Zip>38655</Zip>
    <State>MS</State>
    <County>Lafayette</County>
    <City>Oxford</City>
    <PhoneNumber>6622362025</PhoneNumber>
    <AlternatePhone>6622352026</AlternatePhone>
    <CellPhone>6622362027</CellPhone>
    <Pager>6622362028</Pager>
    <Fax>6622362029</Fax>
    <EmailAddress>emcfadden@fncinc.com</EmailAddress>
    <EandOPolicyNumber>123654879</EandOPolicyNumber>
    <EandOExpirationDate>0001-01-01</EandOExpirationDate>
    <EandOCarrier>Appraiser Insurance Co.</EandOCarrier>
    <EandOAmount>1000000</EandOAmount>
    <LicenseInformation>
      <LicenseState>AK</LicenseState>
      <LicenseNumber>556565-B</LicenseNumber>
      <LicenseLevel>Licensed</LicenseLevel>
      <ExpirationDt>2012-02-25</ExpirationDt>
      <FHA>true</FHA>
      <VA>true</VA>
      <ASC>false</ASC>
    </LicenseInformation>
    <LicenseInformation>
      <LicenseState>AZ</LicenseState>
      <LicenseNumber>67776768-G</LicenseNumber>
      <LicenseLevel>Licensed</LicenseLevel>
      <ExpirationDt>2011-12-24</ExpirationDt>
      <FHA>true</FHA>
      <VA>false</VA>
      <ASC>false</ASC>
    </LicenseInformation>
    <LicenseInformation>
      <LicenseState>CA</LicenseState>
      <LicenseNumber>765657575-A</LicenseNumber>
      <LicenseLevel>Licensed</LicenseLevel>
      <ExpirationDt>2011-12-31</ExpirationDt>
      <FHA>true</FHA>
      <VA>false</VA>
      <ASC>false</ASC>
    </LicenseInformation>
    <LicenseInformation>
      <LicenseState>DC</LicenseState>
      <LicenseNumber>6565kijiji</LicenseNumber>
      <LicenseLevel>Licensed</LicenseLevel>
      <ExpirationDt>2011-12-26</ExpirationDt>
      <FHA>true</FHA>
      <VA>false</VA>
      <ASC>false</ASC>
    </LicenseInformation>
    <LicenseInformation>
      <LicenseState>GA</LicenseState>
      <LicenseNumber>67565656-A</LicenseNumber>
      <LicenseLevel>Licensed</LicenseLevel>
      <ExpirationDt>2011-12-29</ExpirationDt>
      <FHA>true</FHA>
      <VA>false</VA>
      <ASC>false</ASC>
    </LicenseInformation>
  </AppraiserDetails>

```

```

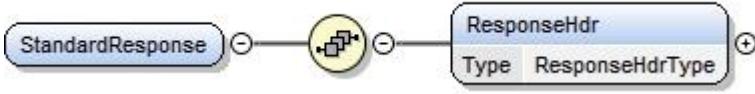
<LicenseInformation>
  <LicenseState>MS</LicenseState>
  <LicenseNumber>56655-A</LicenseNumber>
  <LicenseLevel>Licensed</LicenseLevel>
  <ExpirationDt>2012-03-10</ExpirationDt>
  <FHA>true</FHA>
  <VA>false</VA>
  <ASC>false</ASC>
</LicenseInformation>
</AppraiserDetails>
</OrderAcceptanceRq>

```

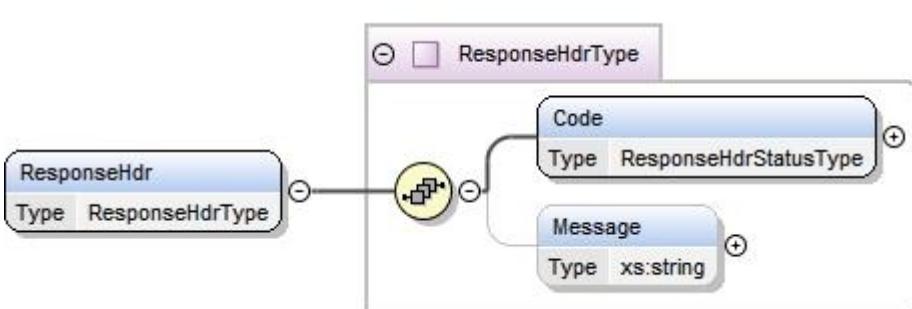
Standard LOS Response

CMS expects a response from the LOS. The response may also return a processing error and message.

Element StandardResponse

Namespace	http://fncinc.com/Integration.xsd
Annotations	The element sent for an simple response
Diagram	
Properties	content: complex
Model	ResponseHdr
Children	ResponseHdr
Instance	<StandardResponse> <ResponseHdr>{1,1}</ResponseHdr> </StandardResponse>

Element StandardResponse/ResponseHdr

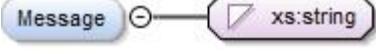
Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	ResponseHdrType
Properties	content: complex
Model	Code , Message{0,1}
Children	Code, Message
Instance	<ResponseHdr> <Code>{1,1}</Code> <Message>{0,1}</Message> </ResponseHdr>

Element ResponseHdrType / Code

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	ResponseHdrStatusType
Properties	content: simple
Facets	enumeration OK

enumeration	ApplicationError
enumeration	SystemError
enumeration	ReferentialIntegrityError

Element ResponseHdrType / Message

Namespace	http://fncinc.com/Integration.xsd				
Diagram					
Type	xs:string				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> </table>	content:	simple	minOccurs:	0
content:	simple				
minOccurs:	0				

Sample XML

A simplified version of Response XML is below:

```
<StandardResponse xsi:schemaLocation="http://fncinc.com/CHQ CMS.xsd"
xmlns:in="http://fncinc.com/Integration.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance">
    <ResponseHdr>
        <Code>OK</Code>
        <Message/>
    </ResponseHdr>
</StandardResponse>
```

The LOS is expected to respond with a <StatusUpdateRs>. The only child element defined is <Header> which is the same type as the <Header> in <CreateOrderRs>.

Release from Disclosure

:: Release from Disclosure

The Release from Disclosure Touch Point originates from the LOS. The request is triggered when the LOS needs to release the order from the Waiting for Disclosure status.

Actors

CMS This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.

Client System System responsible for data management and originating orders

Preconditions – Credentials entered into CMS interface setup

Post Conditions – Release from Disclosure is originated from Client System and processed in CMS.net System.

► Main Scenario

6. LOS sends Release from Disclosure request to CMS
7. CMS System receives Release from Disclosure request and validates XML
8. CMS System verifies that current status is in Waiting for Disclosure.

9. CMS System sends response to communicate successful receipt of XML.
10. CMS system will process order through assignment.

► Alternate Scenarios

1. Can't connect to CMS – System Error
2. CMS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. CMS sends a failure acknowledgement – an application error occurred.
4. CMS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

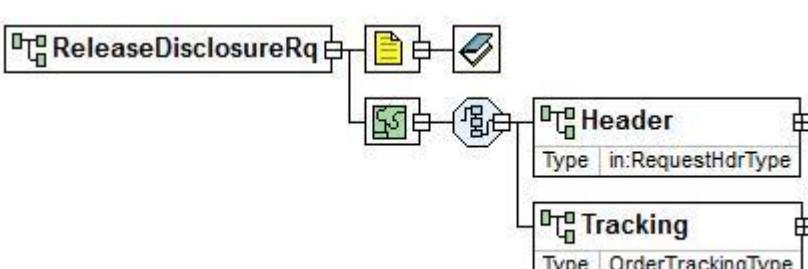
File Post URL

UAT URL: <https://collateralhq.fncinc.com/interface/losrequest.ashx>

Production URL: <https://www.collateralhq.com/interface/losrequest.ashx>

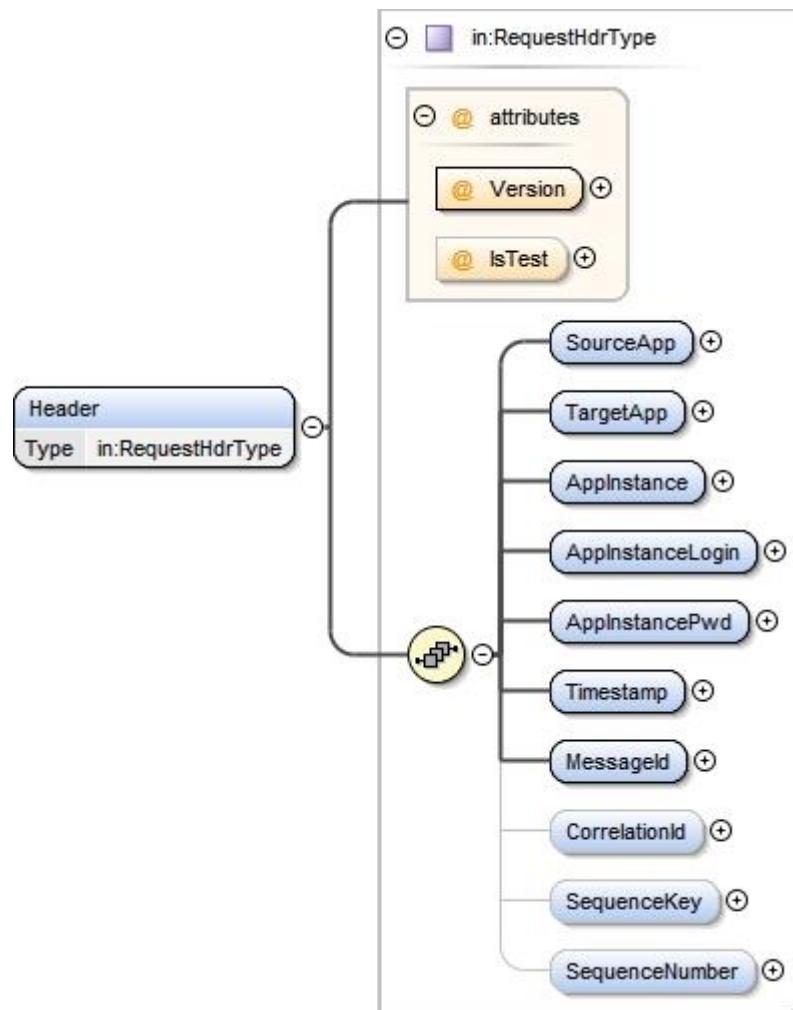
XML Structure Overview

Element **ReleaseDisclosureRq**

Namespace	http://fncinc.com/CHQ
Annotations	A Release from Disclosure request from LOS.
Diagram	 <pre> classDiagram class ReleaseDisclosureRq { <<T>> } class Header { <<S>> Type in:RequestHdrType } class Tracking { <<E>> Type OrderTrackingType } ReleaseDisclosureRq --> Header ReleaseDisclosureRq --> Tracking </pre>
Properties	content: complex
Instance	<pre> <ReleaseDisclosureRq> <Header IsTest="false" Version="1.0">{1,1}</Header> <Tracking>{1,1}</Tracking> </ReleaseDisclosureRq> </pre>

Element **ReleaseDisclosureRq / Header**

Namespace	http://fncinc.com/CHQ
-----------	---

Diagram


Type	RequestHdrType
------	----------------

Properties	content: complex
------------	------------------

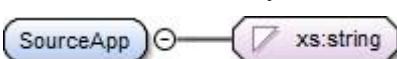
Instance	<pre><Header IsTest="false" Version="1.0"> <SourceApp>{1,1}</SourceApp> <TargetApp>{1,1}</TargetApp> <ApplInstance>{1,1}</ApplInstance> <ApplInstanceLogin>{1,1}</ApplInstanceLogin> <ApplInstancePwd>{1,1}</ApplInstancePwd> <Timestamp>{1,1}</Timestamp> <MessageId>{1,1}</MessageId> <CorrelationId>{0,1}</CorrelationId> <SequenceKey>{0,1}</SequenceKey> <SequenceNumber>{0,1}</SequenceNumber> </Header></pre>
----------	--

Attributes	QName	Type	Fixed	Default	Use	Annotation
	IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.
	Version	xs:string	1.0		required	Based on schema

Element RequestHdrType / SourceApp

Namespace	http://fncinc.com/Integration.xsd
-----------	-----------------------------------

Annotations	The name of the system sending message
-------------	--

Diagram	
---------	---

Type	xs:string
------	-----------

Properties	content: simple
------------	-----------------

Element RequestHdrType / TargetApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The Name of the system receiving the message
Diagram	
Type	string20
Properties	content: simple
Facets	maxLength 20

Element RequestHdrType / ApplInstance

Namespace	http://fncinc.com/Integration.xsd
Annotations	An identifier obtained from FNC
Diagram	
Type	string10
Properties	content: simple
Facets	maxLength 10

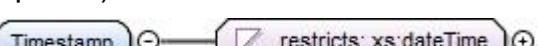
Element RequestHdrType / ApplInstanceLogin

Namespace	http://fncinc.com/Integration.xsd
Annotations	User name for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / ApplInstancePwd

Namespace	http://fncinc.com/Integration.xsd
Annotations	Password for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

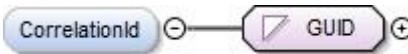
Element RequestHdrType / Timestamp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The timestamp from sending system Formatting: ISO8601; sql type 126; yyyy-mm-ddThh:mi:ss.mmm (no spaces)
Diagram	
Type	xs:dateTime
Properties	content: simple

Element RequestHdrType / MessageId

Namespace	http://fncinc.com/Integration.xsd
Annotations	A unique identifier for the XML. Each unique message must have a unique MessageId.
Diagram	
Type	GUID
Properties	content: simple
Facets	<p>pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}</p>

Element RequestHdrType / CorrelationId

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	<p>content: simple</p> <p>minOccurs: 0</p>
Facets	<p>pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}</p>

Element RequestHdrType / SequenceKey

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	<p>content: simple</p> <p>minOccurs: 0</p>
Facets	<p>pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}</p>

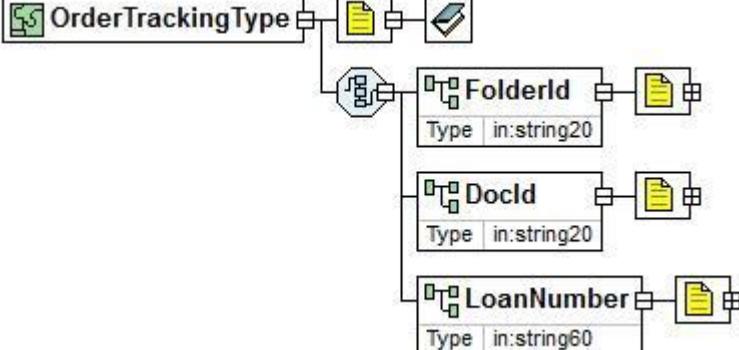
Element RequestHdrType / SequenceNumber

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	xs:int

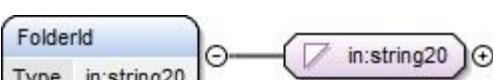
Properties	content: simple minOccurs: 0
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ReleaseDisclosureRq Node Elements

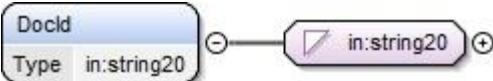
Element [ReleaseDisclosureRq/Tracking](#)

Namespace	http://fncinc.com/CHQ
Diagram	 <pre> classDiagram class OrderTrackingType { <> FolderId <> DocId <> LoanNumber } class FolderId { Type in:string20 } class DocId { Type in:string20 } class LoanNumber { Type in:string60 } OrderTrackingType "1..1" --> "1..1" FolderId OrderTrackingType "1..1" --> "1..1" DocId OrderTrackingType "1..1" --> "1..1" LoanNumber </pre>
Type	OrderTrackingType
Properties	content: complex minOccurs: 1 maxOccurs: 1
Instance	<pre> <Tracking> <FolderId>{1,1}</FolderId> <DocId>{1,1}</DocId> <LoanNumber>{1,1}</LoanNumber> </Tracking> </pre>

Element [OrderTrackingType / FolderId](#)

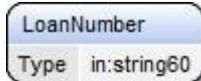
Namespace	http://fncinc.com/CHQ
Annotations	A tracking number used in CMS.
Diagram	 <pre> classDiagram class FolderId { Type in:string20 } </pre>
Type	string20
Properties	content: simple minOccurs: 1
Facets	maxLength 20

Element [OrderTrackingType / DocId](#)

Namespace	http://fncinc.com/CHQ
Annotations	A tracking number used in CMS. DocId is also used for later status updates.
Diagram	 <pre> classDiagram class DocId { Type in:string20 } </pre>
Type	string20
Properties	content: simple

	minOccurs: 1
Facets	maxLength 20

Element OrderTrackingType / LoanNumber

Namespace	http://fncinc.com/CHQ
Annotations	Loan Number; (Echoing back the received Loan Number)
Diagram	 <pre> classDiagram class LoanNumber { <<Type in:string60>> } </pre>
Type	String60
Properties	content: simple minOccurs: 1

Sample Post XML

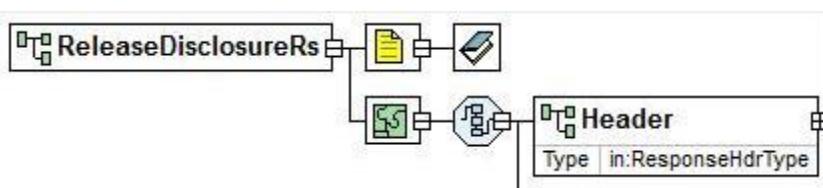
```

<?xml version="1.0" encoding="utf-8"?>
<ReleaseDisclosureRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header Version="1.0">
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">SourceApp</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">CHQ</TargetApp>
    <AppInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</AppInstance>
    <AppInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</AppInstanceLogin>
    <AppInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123</AppInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2008-09-05T14:39:46.1574462-05:00</Timestamp>
    <MessageId xmlns="http://fncinc.com/Integration.xsd">0f495900-8b85-4929-8317-82a0833b7601</MessageId>
  </Header>
  <Tracking>
    <FolderId>20090317-0002-1</FolderId>
    <DocId>20090317-0002-1</DocId>
    <LoanNumber>ABC123</LoanNumber>
  </Tracking>
</ReleaseDisclosureRq>
  
```

ReleaseDisclosureRs

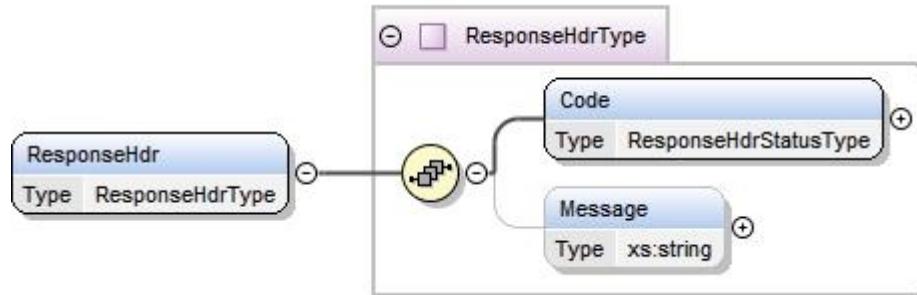
CMS will respond to the ReleaseDisclosureRq post with ReleaseDisclosureRs. This is different from our standard response in that it gives you a message that the order has been released from Waiting for Disclosures status.

Element ReleaseDisclosureRs

Namespace	http://fncinc.com/Integration.xsd
Annotations	The element sent for an simple response
Diagram	 <pre> sequenceDiagram participant RS as ReleaseDisclosureRs participant H as Header RS->>H: activate H H->>RS: deactivate H </pre>
Properties	content: complex
Instance	<ReleaseDisclosureRs> <Header>{1,1}</Header> </ReleaseDisclosureRs>

Element StandardResponse/ResponseHdr

Namespace	http://fncinc.com/Integration.xsd
-----------	-----------------------------------

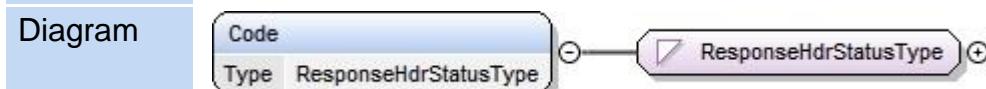
Diagram

Type ResponseHdrType

Properties content: complex

Instance

```

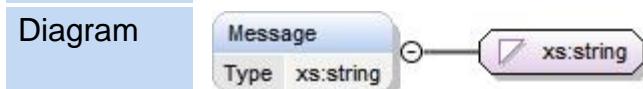
<ResponseHdr>
  <Code>{1,1}</Code>
  <Message>{0,1}</Message>
</ResponseHdr>
    
```

Element ResponseHdrType/Code
Namespace http://fncinc.com/Integration.xsd

Type ResponseHdrStatusType

Properties content: simple

Facets

enumeration	OK
enumeration	ApplicationError
enumeration	SystemError
enumeration	ReferentialIntegrityError

Element ResponseHdrType/Message
Namespace http://fncinc.com/Integration.xsd

Type xs:string

Properties content: simple
 minOccurs: 0

Sample XML

```

<?xml version="1.0" encoding="utf-8"?>
<ReleaseDisclosureRs xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header>
    <Code xmlns="http://fncinc.com/Integration.xsd">OK</Code>
    <Message xmlns="http://fncinc.com/Integration.xsd">The following Loan: ABC123 has been released from Waiting For
Disclosures</Message>
  </Header>
</ReleaseDisclosureRs>
    
```

File Upload Request

File Upload

This alternate File Upload Touch Point originates from the LOS. The request is triggered when the LOS delivers the file to CMS interface. File is successfully uploaded after XML validation.

Actors

CMS	This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.
Client System	System responsible for data management and originating orders

Preconditions – Credentials entered into CMS interface setup

Post Conditions – File request is originated from Client System and processed in CMS.

▶ Main Scenario

11. LOS sends file upload request to CMS
12. CMS System receives File Upload request and validates XML
13. CMS System sends response to communicate successful receipt of XML.
14. CMS system will upload the file to requested order upon successful XML validation.
15. CMS sends Response to communicate successful receipt of XML.
16. Client system processes XML receipt response from CMS.

▶ Alternate Scenarios

1. Can't connect to LOS – System Error
2. CMS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. CMS sends a failure acknowledgement – an application error occurred.
4. CMS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

File Post URL

UAT URL: <https://collateralhq.fncinc.com/interface/losfilerequest.ashx>

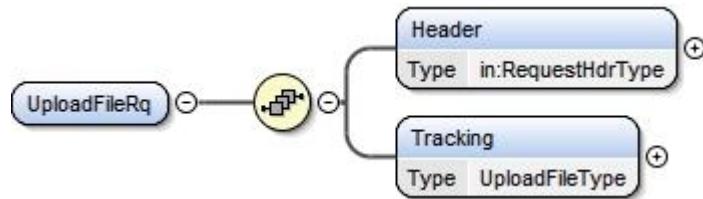
Production URL: <https://www.collateralhq.com/interface/losfilerequest.ashx>

XML Structure Overview

Element **UploadFileRq**

Namespace <http://fncinc.com/CHQ>

Annotations A file upload request to CMS

Diagram

Properties

content: complex

Model

Header , Tracking

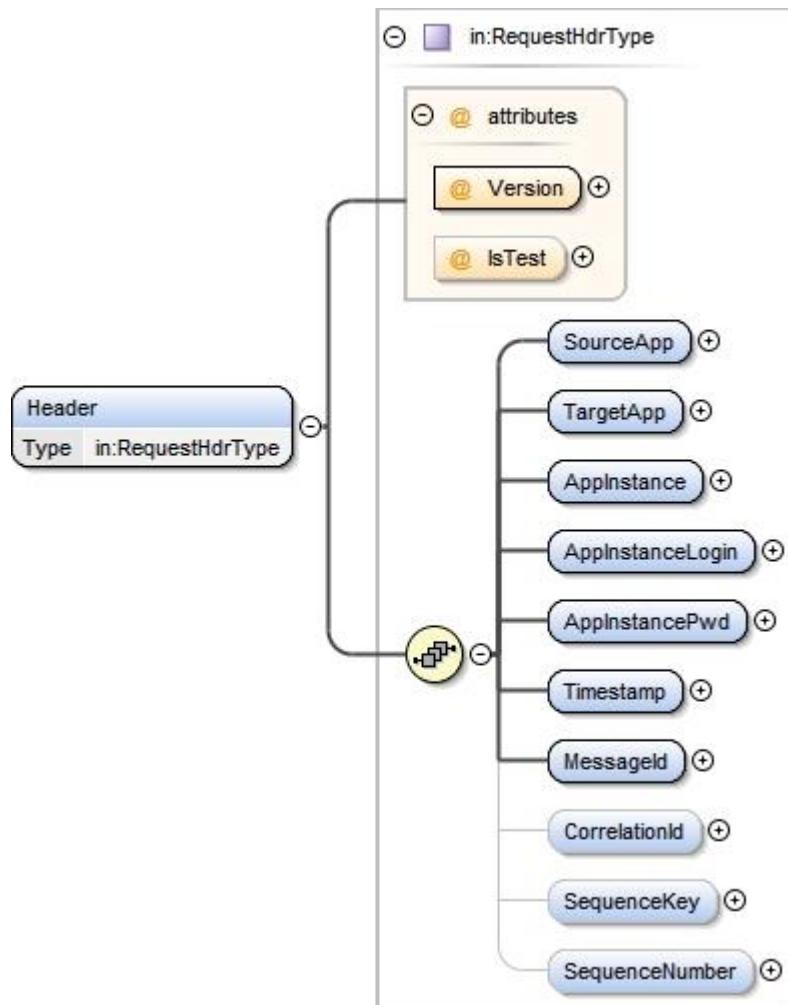
Children

Header, Tracking

Instance

```

<UploadFileRq>
<Header IsTest="false" Version="1.0">{1,1}</Header>
<Tracking>{1,1}</Tracking>
</UploadFileRq>
  
```

Element [UploadFileRq / Header](#)
Namespace <http://fncinc.com/CHQ>
Diagram

Type

RequestHdrType

Properties

content: complex

Model

 SourceApp , TargetApp , AppInstance , AppInstanceLogin , AppInstancePwd ,
 Timestamp , MessageId , CorrelationId{0,1} , SequenceKey{0,1} ,
 SequenceNumber{0,1}

Children

 AppInstance, AppInstanceLogin, AppInstancePwd, CorrelationId, MessageId,
 SequenceKey, SequenceNumber, SourceApp, TargetApp, Timestamp

Instance

```

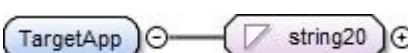
<Header IsTest="false" Version="1.0">
<SourceApp>{1,1}</SourceApp>
<TargetApp>{1,1}</TargetApp>
<AppInstance>{1,1}</AppInstance>
<AppInstanceLogin>{1,1}</AppInstanceLogin>
  
```

	<pre> <ApplInstancePwd>{1,1}</ApplInstancePwd> <Timestamp>{1,1}</Timestamp> <MessageId>{1,1}</MessageId> <CorrelationId>{0,1}</CorrelationId> <SequenceKey>{0,1}</SequenceKey> <SequenceNumber>{0,1}</SequenceNumber> </Header></pre>																							
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>IsTest</td><td>xs:boolean</td><td></td><td>false</td><td>optional</td><td>Not currently used; For development team to utilize in a QA-like environment.</td></tr> <tr> <td>Version</td><td>xs:string</td><td>1.0</td><td></td><td>required</td><td>Based on schema</td></tr> </tbody> </table>						QName	Type	Fixed	Default	Use	Annotation	IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.	Version	xs:string	1.0		required	Based on schema
QName	Type	Fixed	Default	Use	Annotation																			
IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.																			
Version	xs:string	1.0		required	Based on schema																			

Element RequestHdrType / SourceApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The name of the system sending message
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / TargetApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The Name of the system receiving the message
Diagram	
Type	string20
Properties	content: simple
Facets	maxLength 20

Element RequestHdrType / ApplInstance

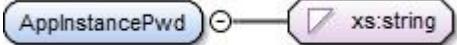
Namespace	http://fncinc.com/Integration.xsd
Annotations	An identifier obtained from FNC
Diagram	
Type	string10
Properties	content: simple
Facets	maxLength 10

Element RequestHdrType / ApplInstanceLogin

Namespace	http://fncinc.com/Integration.xsd
Annotations	User name for authentication (managed in CHQ)
Diagram	
Type	xs:string

Properties	content: simple
------------	-----------------

Element RequestHdrType / ApplInstancePwd

Namespace	http://fncinc.com/Integration.xsd
Annotations	Password for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / Timestamp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The timestamp from sending system Formatting: ISO8601; sql type 126; yyyy-mm-ddThh:mi:ss.mmm (no spaces)
Diagram	
Type	xs:dateTime
Properties	content: simple

Element RequestHdrType / MessageId

Namespace	http://fncinc.com/Integration.xsd
Annotations	A unique identifier for the XML. Each unique message must have a unique MessageId.
Diagram	
Type	GUID
Properties	content: simple
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element RequestHdrType / CorrelationId

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

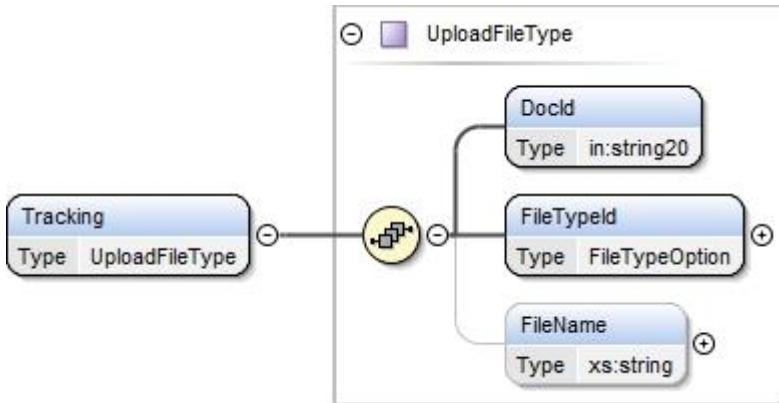
Element RequestHdrType / SequenceKey

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

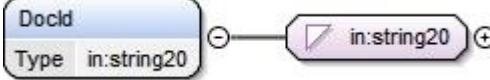
Element RequestHdrType / SequenceNumber

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	xs:int
Properties	content: simple minOccurs: 0

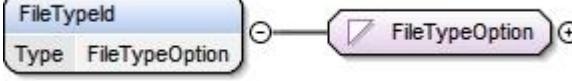
UploadFileRq Node Elements
Element UploadFileRq / Tracking

Namespace	http://fncinc.com/CHQ
Diagram	
Type	UploadFileType
Properties	content: complex minOccurs: 1 maxOccurs: 1
Model	DocId , FileTypeld , FileName{0,1}
Children	DocId, FileName, FileTypeld
Instance	<pre> <Tracking> <DocId>{1,1}</DocId> <FileTypeld>{1,1}</FileTypeld> <FileName>{0,1}</FileName> </Tracking> </pre>

Element UploadFileType / DocId

Namespace	http://fncinc.com/CHQ
Annotations	A tracking number used in CMS. DocId is also used for later status updates.
Diagram	
Type	string20
Properties	content: simple minOccurs: 1
Facets	maxLength 20

Element UploadFileType / FileTypeid

Namespace	http://fncinc.com/CHQ																																																																																																	
Annotations	The file types listed below are default values. Your client may add or remove as necessary.																																																																																																	
Diagram																																																																																																		
Type	FileTypeOption																																																																																																	
Properties	content: simple minOccurs: 1 maxOccurs: 1																																																																																																	
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INEXSTATE	Income/Expense Statements
INSPCHECK	Inspection Checklist
IPSL	Inspection Report
LEGAL	Legal
MISMO	MISMO
MReport	Market Report
OADI_INV	Appraisal Invoice
ORDERSHEET	Order Sheet
OTHER	Other Documents
OTHERBID	Other Bid Info
OTHERENVIR	Other Environmental Report
PAPSL	Previous Appraisal
PHOTO	Photo
PLANSSPECS	Plans and Specs
PRCHAGRMT	Purchase Agreement
PScan	Property Scan
QCDATA	QC Additional Data
QCV_APSSL	QC Vigilance Report
QUESTIONS	Questionnaires
RBELL	Red Bell Appraisal
RCPT	Receipt
RECONCILE	Reconciliation
RENTROLL	Leases/Rent Roll
REVPDF	Review
REVSCOPE	Review Scope
RQREPORT	Real Quest Report
SALEDATA	Sales Data
SEQUESTER	Sequestered - Resubmission
SITEPLAN	Site Plan
SKETCH	Property Sketch
SUPPLEMENT	Supplement
SURVEY	Surveys
TAX	Tax Files
TITLECOM	Title Commitment
TPSL	Title Document
UNDER	Underwriting Checklist
VALIDCHK	Validity Check
VSight	Valuesight
WATCHLIST	Watch List

Element UploadFileType / FileName

Namespace	http://fncinc.com/CHQ						
Annotations	A reference name about this file. It is not used in CMS, but for the sender to track.						
Diagram	 <pre> classDiagram class FileName { <<xs:string>> } class xs:string FileName "1" --> "1" xs:string </pre>						
Type	xs:string						
Properties	<table border="0"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>0</td> </tr> <tr> <td>maxOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	0	maxOccurs:	1
content:	simple						
minOccurs:	0						
maxOccurs:	1						

Sample Post XML

```

<?xml version="1.0" encoding="utf-8"?>
<UploadFileRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header Version="1.0">
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">SourceApp</SourceApp>
  
```

```

<TargetApp xmlns="http://fncinc.com/Integration.xsd">CHQ</TargetApp>
<AppInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</AppInstance>
<AppInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</AppInstanceLogin>
<AppInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123</AppInstancePwd>
<Timestamp xmlns="http://fncinc.com/Integration.xsd">2008-09-05T14:39:46.1574462-05:00</Timestamp>
<MessageId xmlns="http://fncinc.com/Integration.xsd">0f495900-8b85-4929-8317-82a0833b7601</MessageId>
</Header>
<Tracking>
  <DocId>20090317-0002-1</DocId>
  <FileTypeld>APSL</FileTypeld>
  <FileName>review_appraisal.pdf</FileName>
</Tracking>
</UploadFileRq>

```

File Post Sample Code

The file interface differs from the standard posts in that file delivery utilizes a form post instead of the typical XML post. As there is a file as well as form content a form-multipart post is required.

Below is a sample for the HTML code as if a user were uploading a file via a web page:

```

<html>
  <body>
    <form name="form1" method="post"
action="https://collateralhq.fncinc.com/interface/losfilerequest.ashx"
      enctype="multipart/form-data">
      payload
      <br />
      <textarea id="payload" name="payload"></textarea><br />
      file
      <input id="file1" name="file1" type="file" />
      <br />
      <input type="submit" name="Go" id="Go" value="Go" />
    </form>
  </body>
</html>

```

The action should be the CMS URL being posting to. Notice this does not post to the standard xml interface page LosRequest.ashx but instead to LosFileRequest.ashx. Also notice two items must be specified to post. The first is Payload, which in this case is a textarea, and the other is file1. The names of these items do matter as this is how they will post to the interface.

Below is sample code for creating the post from the backend in C#:

```

public static async void MakeRequest()
{
    XElement XmlContent = XElement.Parse(@"<UploadFileRq>
<Tracking>
<DocId></DocId>
<FileTypeld></FileTypeld>
<FileName></FileName>
</Tracking>
</UploadFileRq>");

    string filePath = @"C:\CODE\pushxml.xml";
    var file = new FileStream(filePath, FileMode.Open);
    byte[] fileData = new byte[file.Length];
    file.Read(fileData, 0, fileData.Length);

    HttpRequestMessage updateMessage = new
HttpRequestMessage(HttpMethod.Post, new
Uri("http://blah.com/Interface/LosFileRequest.ashx"));

```

```

        using (var content = new MultipartFormDataContent("-----" +
Guid.NewGuid().ToString()))
        {   using (HttpClient client = new HttpClient())
            {
                content.Add(new
StringContent(XmlContent.ToString(), Encoding.UTF8, "application/xml"), "payload");
                content.Add(new ByteArrayContent(fileData), "file1", "pushxml.xml");
                updateMessage.Content = content;
                var input = await
client.SendAsync(updateMessage).Result.Content.ReadAsStringAsync()//

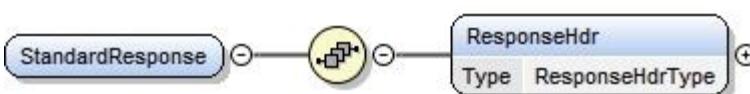

            }
        file.Close();
    }
}

```

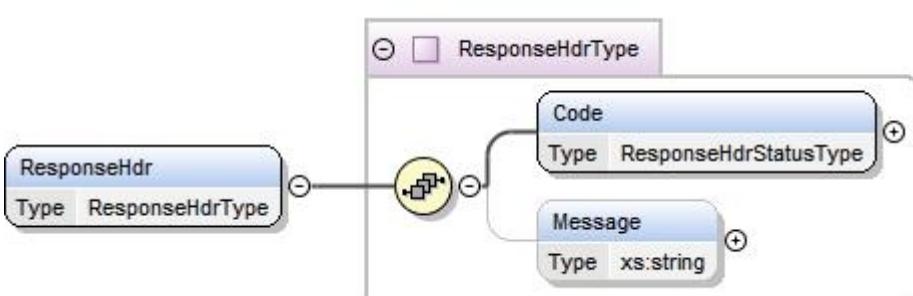
CMS Standard Response

CMS expects a response from the LOS. The response may also return a processing error and message.

Element StandardResponse

Namespace	http://fncinc.com/Integration.xsd
Annotations	The element sent for an simple response
Diagram	
Properties	content: complex
Model	ResponseHdr
Children	ResponseHdr
Instance	<StandardResponse> <ResponseHdr>{1,1}</ResponseHdr> </StandardResponse>

Element StandardResponse/ResponseHdr

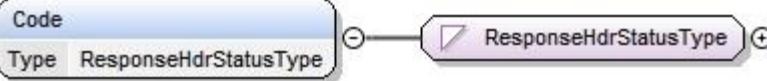
Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	ResponseHdrType
Properties	content: complex
Model	Code , Message{0,1}
Children	Code, Message
Instance	<ResponseHdr>

```

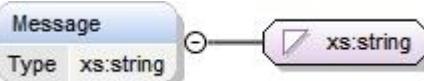
<Code>{1,1}</Code>
<Message>{0,1}</Message>
</ResponseHdr>

```

Element ResponseHdrType/Code

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	ResponseHdrStatusType
Properties	content: simple
Facets	enumeration OK enumeration ApplicationError enumeration SystemError enumeration ReferentialIntegrityError

Element ResponseHdrType/Message

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Sample XML

A simplified version of Response XML is below:

```

<StandardResponse xsi:schemaLocation="http://fncinc.com/CHQ CMS.xsd"
  xmlns:in="http://fncinc.com/Integration.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
  instance">
  <ResponseHdr>
    <Code>OK</Code>
    <Message/>
  </ResponseHdr>
</StandardResponse>

```

Message Touchpoint

:: Add/Update Message Post from CMS

The Message Updates Touch Point originates from CMS. This update is triggered when a customer message is added to an order or an existing message visibility is updated. If an existing customer message is updated to a non-customer message or a non-customer message is updated to a customer message, XML post will be triggered from CMS to the Client System (ordering system).

Actors

CMS This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.

Client System System responsible for data management and originating orders

Preconditions – URL for Client system is completed in CMS

Post Conditions – Order updates sent from CMS and processed in Client System.

► Main Scenario

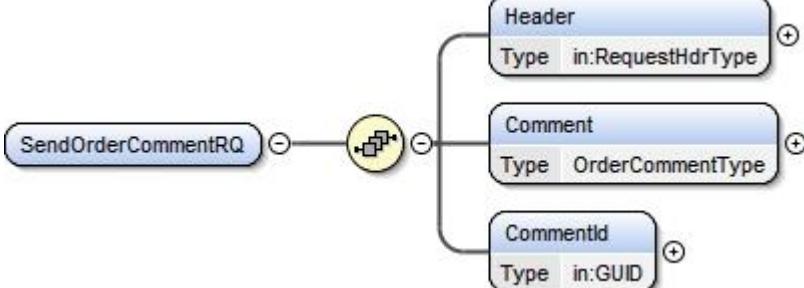
1. A customer message is created in CMS.
2. An existing customer message is updated to non-customer message in CMS.
3. An existing non-customer message is updated to a customer message in CMS.
4. A unique Comment ID is assigned to each message. Client System should use this unique ID as an identifier for future message posts if another update post is triggered from CMS.
5. CMS sends Message Update to the Client System.
6. Client System receives Status Update and validates XML.
7. Client System sends response to communicate successful receipt of XML.
8. Client System updates order in its system with updated order information.

► Alternate Scenarios

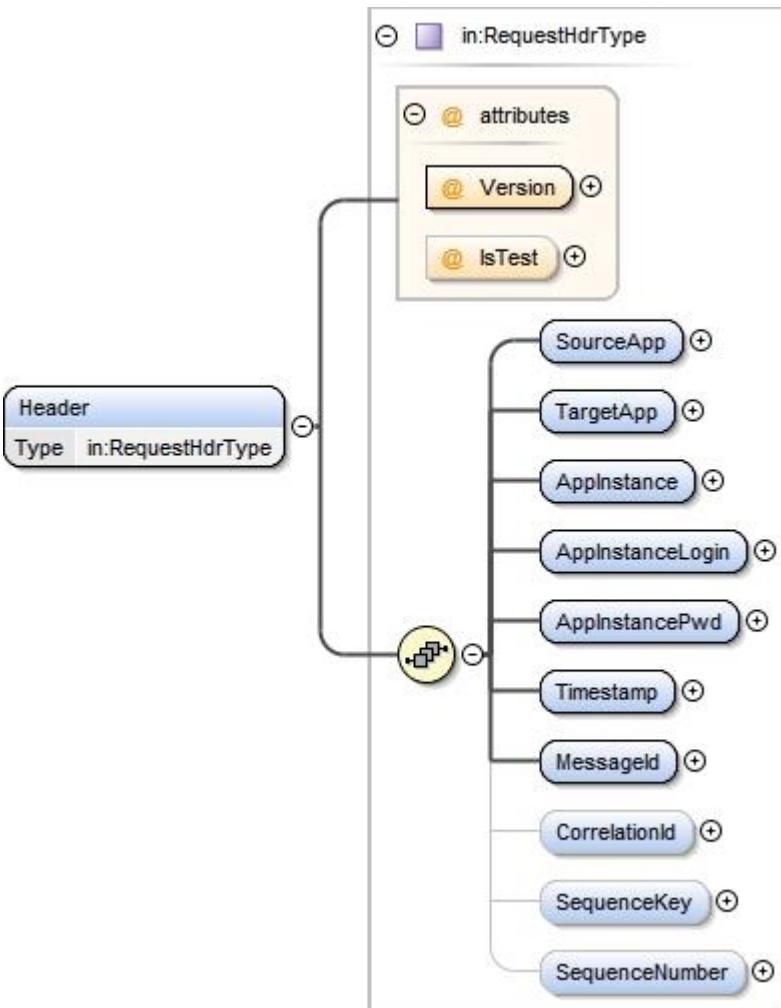
1. Can't connect to LOS – System Error
2. LOS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. LOS sends a failure acknowledgement – an application error occurred.
4. LOS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

XML Structure Overview

Element SendOrderCommentRQ

Namespace	http://fncinc.com/CHQ
Annotations	Sending customer Comment
Diagram	 <pre> classDiagram class SendOrderCommentRQ class Header { <<in:RequestHdrType>> } class Comment { <<OrderCommentType>> } class CommentId { <<in:GUID>> } SendOrderCommentRQ --> Header SendOrderCommentRQ --> Comment SendOrderCommentRQ --> CommentId </pre>
Properties	content: complex
Model	Header , Comment , CommentId
Children	Comment, CommentId, Header
Instance	<pre> <SendOrderCommentRQ> <Header IsTest="false" Version="1.0">{1,1}</Header> <Comment DocId="">{1,1}</Comment> <CommentId>{1,1}</CommentId> </SendOrderCommentRQ> </pre>

Element SendOrderCommentRQ / Header

Namespace	http://fncinc.com/CHQ
Diagram	 <pre> classDiagram class Header { <<in:RequestHdrType>> } Header --> attributes attributes --> Version attributes --> IsTest Header --> SourceApp Header --> TargetApp Header --> ApplInstance Header --> ApplInstanceLogin Header --> ApplInstancePwd Header --> Timestamp Header --> MessageId Header --> CorrelationId Header --> SequenceKey Header --> SequenceNumber </pre>
Type	RequestHdrType

Properties	content: complex																		
Model	SourceApp , TargetApp , ApplInstance , ApplInstanceLogin , ApplInstancePwd , Timestamp , MessageId , CorrelationId{0,1} , SequenceKey{0,1} , SequenceNumber{0,1}																		
Children	ApplInstance, ApplInstanceLogin, ApplInstancePwd, CorrelationId, MessageId, SequenceKey, SequenceNumber, SourceApp, TargetApp, Timestamp																		
Instance	<pre><Header IsTest="false" Version="1.0"> <SourceApp>{1,1}</SourceApp> <TargetApp>{1,1}</TargetApp> <ApplInstance>{1,1}</ApplInstance> <ApplInstanceLogin>{1,1}</ApplInstanceLogin> <ApplInstancePwd>{1,1}</ApplInstancePwd> <Timestamp>{1,1}</Timestamp> <MessageId>{1,1}</MessageId> <CorrelationId>{0,1}</CorrelationId> <SequenceKey>{0,1}</SequenceKey> <SequenceNumber>{0,1}</SequenceNumber> </Header></pre>																		
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>IsTest</td><td>xs:boolean</td><td></td><td>false</td><td>optional</td><td>Not currently used; For development team to utilize in a QA-like environment.</td></tr> <tr> <td>Version</td><td>xs:string</td><td>1.0</td><td></td><td>required</td><td>Based on schema</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	Annotation	IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.	Version	xs:string	1.0		required	Based on schema
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IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.														
Version	xs:string	1.0		required	Based on schema														

Element RequestHdrType / SourceApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The name of the system sending message
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / TargetApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The Name of the system receiving the message
Diagram	
Type	string20
Properties	content: simple
Facets	maxLength 20

Element RequestHdrType / ApplInstance

Namespace	http://fncinc.com/Integration.xsd
Annotations	An identifier obtained from FNC
Diagram	

Type	string10
Properties	content: simple
Facets	maxLength 10

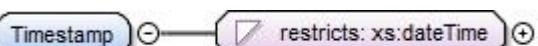
Element RequestHdrType / ApplInstanceLogin

Namespace	http://fncinc.com/Integration.xsd
Annotations	User name for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / ApplInstancePwd

Namespace	http://fncinc.com/Integration.xsd
Annotations	Password for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

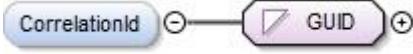
Element RequestHdrType / Timestamp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The timestamp from sending system Formatting: ISO8601; sql type 126; yyyy-mm-ddThh:mi:ss.mmm (no spaces)
Diagram	
Type	xs:dateTime
Properties	content: simple

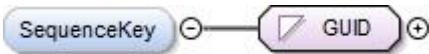
Element RequestHdrType / MessageId

Namespace	http://fncinc.com/Integration.xsd
Annotations	A unique identifier for the XML. Each unique message must have a unique MessageId.
Diagram	
Type	GUID
Properties	content: simple
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element RequestHdrType / CorrelationId

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element RequestHdrType / SequenceKey

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

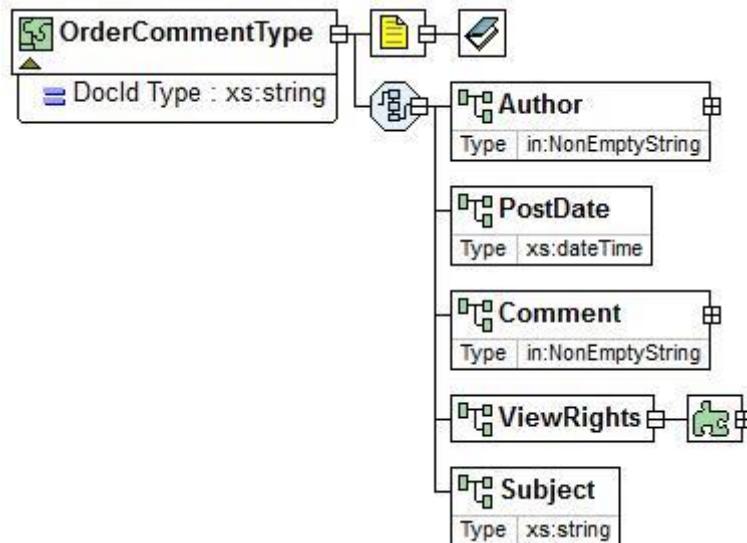
Element RequestHdrType / SequenceNumber

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	xs:int
Properties	content: simple minOccurs: 0

Comment Node Elements

Element SendOrderCommentRQ / Comment

Namespace http://fncinc.com/CHQ

Diagram

Type

OrderCommentType

Properties

content: complex

Model

Author , PostDate , Comment , ViewRights , Subject{0,1}

Children

Author, Comment, PostDate, Subject, ViewRights

Instance

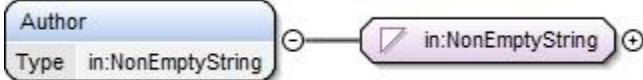
```

<Comment DocId="">
    <Author>{1,1}</Author>
    <PostDate>{1,1}</PostDate>
    <Comment>{1,1}</Comment>
    <ViewRights>{1,1}</ViewRights>
    <Subject>{0,1}</Subject>
</Comment>
    
```

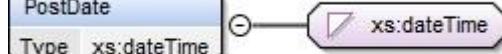
Attributes

QName	Type	Fixed	Default	Use	Annotation
DocId	xs:string			optional	

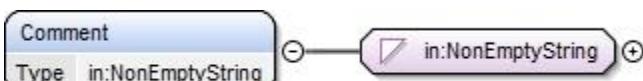
Element OrderCommentType / Author

Namespace	http://fncinc.com/CHQ
Diagram	
Type	NonEmptyString
Properties	content: simple
Facets	minLength 1

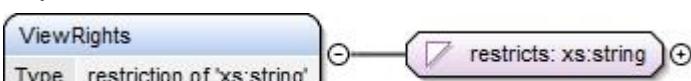
Element OrderCommentType / PostDate

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:dateTime
Properties	content: simple

Element OrderCommentType / Comment

Namespace	http://fncinc.com/CHQ
Diagram	
Type	NonEmptyString
Properties	content: simple
Facets	minLength 1

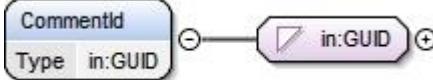
Element OrderCommentType / ViewRights

Namespace	http://fncinc.com/CHQ
Diagram	
Type	restriction of xs:string
Properties	content: simple
Facets	enumeration Customer enumeration None enumeration ServiceProvider enumeration Both

Element OrderCommentType / Subject

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 1

Element SendOrderCommentRQ / CommentId

Namespace	http://fncinc.com/CHQ
Diagram	 <pre> classDiagram class CommentId { Type in:GUID } class { in:GUID } CommentId --> { in:GUID } </pre>
Type	GUID
Properties	content: simple
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Sample Post XML

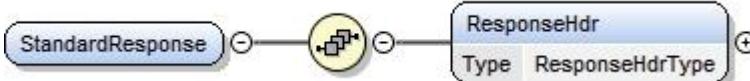
```

<?xml version="1.0" encoding="utf-8"?>
<SendOrderCommentRQ xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header Version="1.0">
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">CMS</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">LOS</TargetApp>
    <ApplInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</ApplInstance>
    <ApplInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</ApplInstanceLogin>
    <ApplInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123</ApplInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2010-09-21T13:41:53.5544917-05:00</Timestamp>
    <MessageId xmlns="http://fncinc.com/Integration.xsd">54283715-d5ca-4a6a-89b4-20e809c45ee7</MessageId>
  </Header>
  <Comment DocId="20100921-0990-3">
    <Author>System</Author>
    <PostDate>2010-09-21T13:41:48.04</PostDate>
    <Comment>Customer requested order despite duplicate.</Comment>
    <ViewRights>Customer</ViewRights>
    <Subject>Duplicate Bypass</Subject>
  </Comment>
  <CommentId>815487D9-3D19-4B54-ADC7-3F9BEDE87DB5</CommentId>
</SendOrderCommentRQ>
  
```

Standard LOS Response

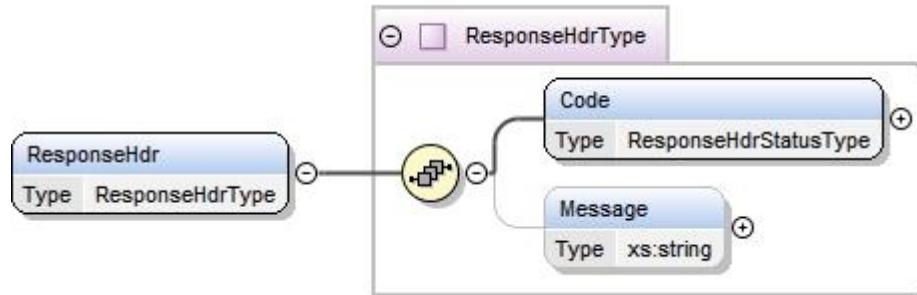
CMS expects a response from the LOS. The response may also return a processing error and message.

Element StandardResponse

Namespace	http://fncinc.com/Integration.xsd
Annotations	The element sent for an simple response
Diagram	 <pre> classDiagram class StandardResponse class ResponseHdr { Type ResponseHdrType } StandardResponse --> { ResponseHdr } ResponseHdr --> { ResponseHdrType } </pre>
Properties	content: complex
Model	ResponseHdr
Children	ResponseHdr
Instance	<StandardResponse> <ResponseHdr>{1,1}</ResponseHdr> </StandardResponse>

Element StandardResponse/ResponseHdr

Namespace http://fncinc.com/Integration.xsd

Diagram


Type	ResponseHdrType
------	-----------------

Properties	content: complex
------------	------------------

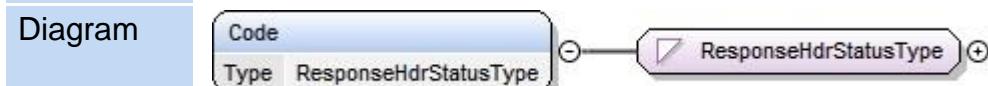
Model	Code , Message{0,1}
-------	---------------------

Children	Code, Message
----------	---------------

Instance	<ResponseHdr> <Code>{1,1}</Code> <Message>{0,1}</Message> </ResponseHdr>
----------	--

Element ResponseHdrType/Code

Namespace	http://fncinc.com/Integration.xsd
-----------	-----------------------------------



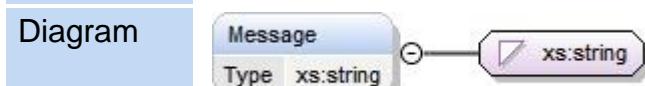
Type	ResponseHdrStatusType
------	-----------------------

Properties	content: simple
------------	-----------------

Facets	enumeration OK enumeration ApplicationError enumeration SystemError enumeration ReferentialIntegrityError
--------	--

Element ResponseHdrType/Message

Namespace	http://fncinc.com/Integration.xsd
-----------	-----------------------------------



Type	xs:string
------	-----------

Properties	content: simple minOccurs: 0
------------	---------------------------------

Sample XML

A simplified version of Response XML is below:

```

<StandardResponse xsi:schemaLocation="http://fncinc.com/CHQ CMS.xsd"
  xmlns:in="http://fncinc.com/Integration.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
  instance">
  <ResponseHdr>
  
```

```
<Code>OK</Code>
<Message/>
</ResponseHdr>
</StandardResponse>
```

:: Add/Update Message Post from LOS

A create/update Message request originates from the LOS. The request is triggered when the LSO delivers a message XML to CMS interface. A message is correctly associated with an order after successful XML validation.

Actors

CMS This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.

Client System System responsible for data management and originating orders

Preconditions – Credentials entered into CMS interface setup

Post Conditions – File request is originated from Client System and processed in CMS.net System.

► Main Scenario

1. A message is created/updated in the Client System.
2. Client System sends Message Request XML to CMS with a CMS Document ID.
3. CMS receives request and validates XML.
4. CMS stores and processes message.
5. CMS sends Response with successful completion of the XML request and returns a Comment ID to Client System.
6. Client System receives response and validates XML.
7. Client System updates order in its system with Comment ID.
8. Client System records successful completion of event.

► Alternate Scenarios

1. Can't connect to CMS – System Error
2. CMS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. CMS sends a failure acknowledgement – an application error occurred.
4. CMS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

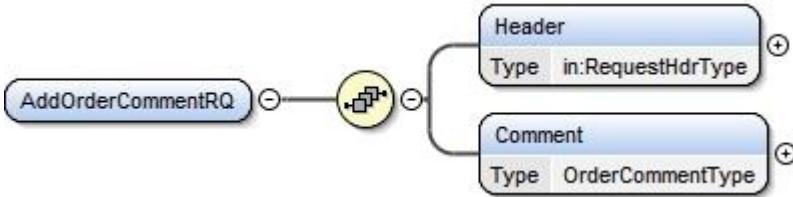
XML Post URL

UAT URL: <https://collateralhq.fncinc.com/interface/losrequest.ashx>

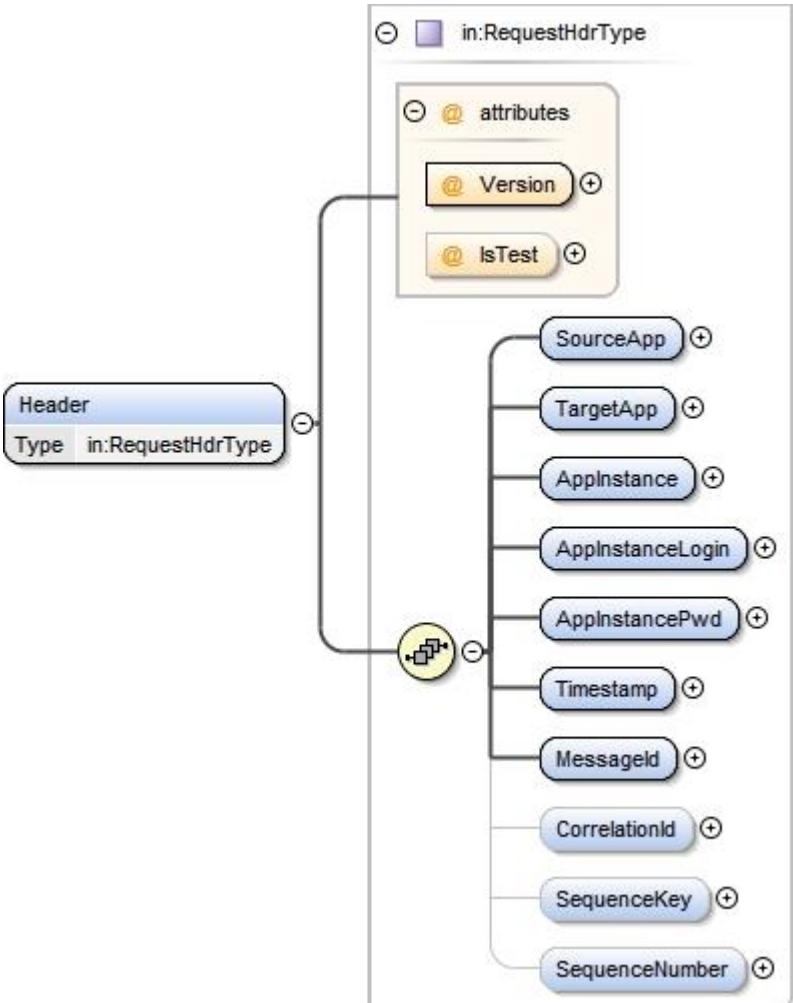
Production URL: <https://www.collateralhq.com/interface/losrequest.ashx>

XML Structure Overview

Element AddOrderCommentRQ

Namespace	http://fncinc.com/CHQ
Annotations	Add comment Request
Diagram	 <pre> sequenceDiagram participant AddOrderCommentRQ participant Header participant Comment AddOrderCommentRQ->>Header: activate Header AddOrderCommentRQ-->>Comment: deactivate Header activate Comment </pre>
Properties	content: complex
Model	Header , Comment
Children	Comment, Header
Instance	<pre> <AddOrderCommentRQ> <Header IsTest="false" Version="1.0">{1,1}</Header> <Comment DocId="">{1,1}</Comment> </AddOrderCommentRQ> </pre>

Element AddOrderCommentRQ / Header

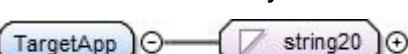
Namespace	http://fncinc.com/CHQ
Diagram	 <pre> sequenceDiagram participant Header participant RequestHdrType Header->>RequestHdrType: activate RequestHdrType </pre>
Type	RequestHdrType
Properties	content: complex

Model	SourceApp , TargetApp , ApplInstance , ApplInstanceLogin , ApplInstancePwd , Timestamp , MessageId , CorrelationId{0,1} , SequenceKey{0,1} , SequenceNumber{0,1}																		
Children	ApplInstance, ApplInstanceLogin, ApplInstancePwd, CorrelationId, MessageId, SequenceKey, SequenceNumber, SourceApp, TargetApp, Timestamp																		
Instance	<pre><Header IsTest="false" Version="1.0"> <SourceApp>{1,1}</SourceApp> <TargetApp>{1,1}</TargetApp> <ApplInstance>{1,1}</ApplInstance> <ApplInstanceLogin>{1,1}</ApplInstanceLogin> <ApplInstancePwd>{1,1}</ApplInstancePwd> <Timestamp>{1,1}</Timestamp> <MessageId>{1,1}</MessageId> <CorrelationId>{0,1}</CorrelationId> <SequenceKey>{0,1}</SequenceKey> <SequenceNumber>{0,1}</SequenceNumber> </Header></pre>																		
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>IsTest</td><td>xs:boolean</td><td></td><td>false</td><td>optional</td><td>Not currently used; For development team to utilize in a QA-like environment.</td></tr> <tr> <td>Version</td><td>xs:string</td><td>1.0</td><td></td><td>required</td><td>Based on schema</td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	Annotation	IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.	Version	xs:string	1.0		required	Based on schema
QName	Type	Fixed	Default	Use	Annotation														
IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.														
Version	xs:string	1.0		required	Based on schema														

Element RequestHdrType / SourceApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The name of the system sending message
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / TargetApp

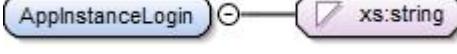
Namespace	http://fncinc.com/Integration.xsd
Annotations	The Name of the system receiving the message
Diagram	
Type	string20
Properties	content: simple
Facets	maxLength 20

Element RequestHdrType / ApplInstance

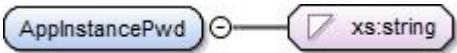
Namespace	http://fncinc.com/Integration.xsd
Annotations	An identifier obtained from FNC
Diagram	
Type	string10

Properties	content: simple
Facets	maxLength 10

Element RequestHdrType / AppInstanceLogin

Namespace	http://fncinc.com/Integration.xsd
Annotations	User name for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / AppInstancePwd

Namespace	http://fncinc.com/Integration.xsd
Annotations	Password for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / Timestamp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The timestamp from sending system Formatting: ISO8601; sql type 126; yyyy-mm-ddThh:mi:ss.mmm (no spaces)
Diagram	
Type	xs:dateTime
Properties	content: simple

Element RequestHdrType / MessageId

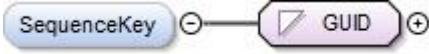
Namespace	http://fncinc.com/Integration.xsd
Annotations	A unique identifier for the XML. Each unique message must have a unique MessageId.
Diagram	
Type	GUID
Properties	content: simple
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element RequestHdrType / CorrelationId

Namespace	http://fncinc.com/Integration.xsd
-----------	-----------------------------------

Annotations	Not currently used
Diagram	
Type	GUID
Properties	<p>content: simple</p> <p>minOccurs: 0</p>
Facets	<p>pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}</p>

Element RequestHdrType / SequenceKey

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	<p>content: simple</p> <p>minOccurs: 0</p>
Facets	<p>pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}</p>

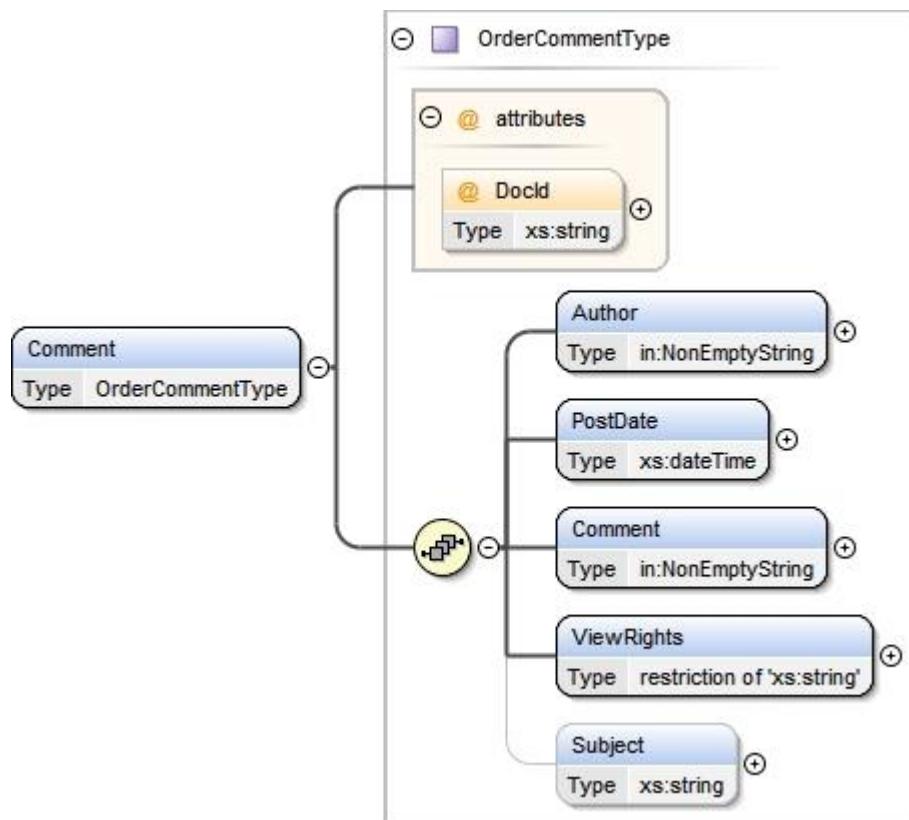
Element RequestHdrType / SequenceNumber

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	xs:int
Properties	<p>content: simple</p> <p>minOccurs: 0</p>

Comment Node Elements

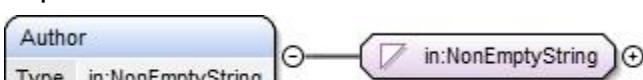
Element AddOrderCommentRQ / Comment

Namespace http://fncinc.com/CHQ

Diagram


Type	OrderCommentType												
Properties	content: complex												
Model	Author , PostDate , Comment , ViewRights , Subject{0,1}												
Children	Author, Comment, PostDate, Subject, ViewRights												
Instance	<pre><Comment DocId=""> <Author>{1,1}</Author> <PostDate>{1,1}</PostDate> <Comment>{1,1}</Comment> <ViewRights>{1,1}</ViewRights> <Subject>{0,1}</Subject> </Comment></pre>												
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>DocId</td><td>xs:string</td><td></td><td></td><td>optional</td><td></td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	Annotation	DocId	xs:string			optional	
QName	Type	Fixed	Default	Use	Annotation								
DocId	xs:string			optional									

Element OrderCommentType / Author

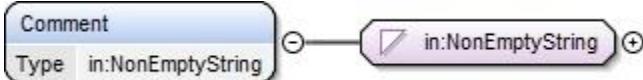
Namespace	http://fncinc.com/CHQ
Diagram	
Type	NonEmptyString
Properties	content: simple
Facets	minLength 1

Element OrderCommentType / PostDate

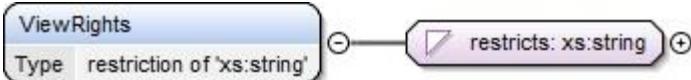
Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:dateTime

Properties content: simple

Element OrderCommentType / Comment

Namespace	http://fncinc.com/CHQ
Diagram	
Type	NonEmptyString
Properties	content: simple
Facets	minLength 1

Element OrderCommentType / ViewRights

Namespace	http://fncinc.com/CHQ
Diagram	
Type	restriction of xs:string
Properties	content: simple
Facets	enumeration Customer enumeration None enumeration Service Provider enumeration Both

Element OrderCommentType / Subject

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 1

Sample Post XML

```

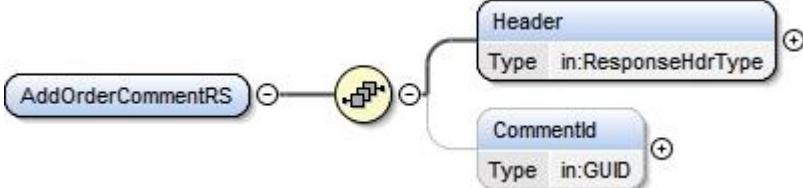
<?xml version="1.0" encoding="utf-8"?>
<AddOrderCommentRQ xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header Version="1.0">
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">SourceApp</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">CHQ</TargetApp>
    <AppInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</AppInstance>
    <AppInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</AppInstanceLogin>
    <AppInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123</AppInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2008-09-05T14:39:46.1574462-05:00</Timestamp>
    <MessageId xmlns="http://fncinc.com/Integration.xsd">1f4959c1-8b85-4929-8317-82a0833b7608</MessageId>
  </Header>
  <Comment DocId="20100809-5546-1">
    <Author>Raj</Author>
    <PostDate>2010-08-09T02:30:00</PostDate>
    <Comment>Test Comment ID</Comment>
    <ViewRights>Customer</ViewRights>
    <Subject>Test Comment ID</Subject>
  </Comment>
</AddOrderCommentRQ>

```

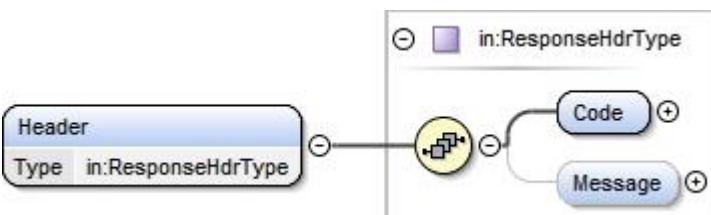
</AddOrderCommentRQ>

Add/Update Message Post Response

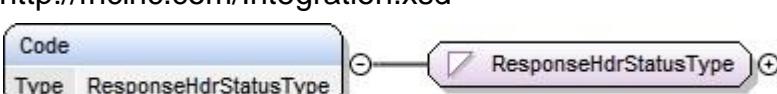
Element AddOrderCommentRS

Namespace	http://fncinc.com/CHQ
Annotations	Add comment Response
Diagram	 <pre> classDiagram class AddOrderCommentRS class Header { <<in:ResponseHdrType>> } class CommentId { <<in:GUID>> } AddOrderCommentRS --> Header : AddOrderCommentRS --> CommentId : </pre>
Properties	content: complex
Model	Header , CommentId{0,1}
Children	CommentId, Header
Instance	<AddOrderCommentRS> <Header>{1,1}</Header> <CommentId>{0,1}</CommentId> </AddOrderCommentRS>

Element AddOrderCommentRS / Header

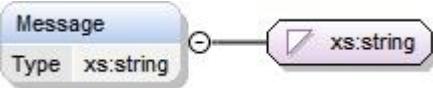
Namespace	http://fncinc.com/CHQ
Diagram	 <pre> classDiagram class Header { <<in:ResponseHdrType>> } class Code class Message Header --> Code : Header --> Message : </pre>
Type	ResponseHdrType
Properties	content: complex
Model	Code , Message{0,1}
Children	Code, Message
Instance	<Header> <Code>{1,1}</Code> <Message>{0,1}</Message> </Header>

Element ResponseHdrType/Code

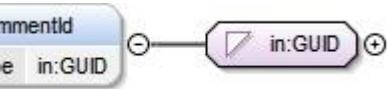
Namespace	http://fncinc.com/Integration.xsd
Diagram	 <pre> classDiagram class ResponseHdrType class ResponseHdrStatusType ResponseHdrType --> ResponseHdrStatusType : </pre>
Type	ResponseHdrStatusType
Properties	content: simple
Facets	enumeration OK enumeration ApplicationError enumeration SystemError

enumeration ReferentialIntegrityError

Element ResponseHdrType/Message

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Element AddOrderCommentRS / CommentId

Namespace	http://fncinc.com/CHQ
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Sample Response XML

```

<?xml version="1.0" encoding="utf-8"?>
<AddOrderCommentRS xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header>
    <Code xmlns="http://fncinc.com/Integration.xsd">OK</Code>
  </Header>
  <CommentId>2b33139c-936e-40ab-9d1c-b583ed94716f</CommentId>
</AddOrderCommentRS>

```

Data Feedback Touchpoint

:: Data Feedback Post

A Data Feedback request originates from the CMS. The request is triggered when an appraisal report is successfully uploaded to CMS and upon the completion of an order.

Actors

CMS	This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.
Client System	System responsible for data management and originating orders

Preconditions – Credentials entered into CMS interface setup

Post Conditions – File request is originated from Client System and processed in CMS.

► Main Scenario

1. An appraisal report is successfully uploaded in the CMS.
2. Order passes through Draft Not Acceptable status in the CMS.
3. CMS sends Data Feedback XML to Client System
4. Client System receives and validates XML
5. Client System sends response to communicate successful receipt of XML.
6. Client System updates order in its system with Document ID.
7. Client System records successful completion of event.

► Alternate Scenarios

1. Can't connect to LOS – System Error
2. LOS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. LOS sends a failure acknowledgement – an application error occurred.
4. LOS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

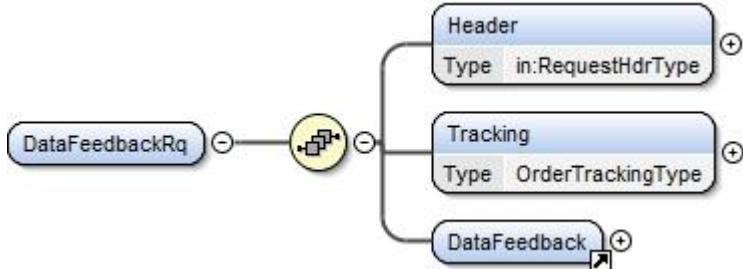
XML Post URL

UAT URL: <https://collateralhq.fncinc.com/interface/losrequest.ashx>

Production URL: <https://www.collateralhq.com/interface/losrequest.ashx>

XML Structure Overview

Element **DataFeedbackRq**

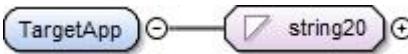
Namespace	http://fncinc.com/CHQ
Annotations	A touchpoint which FNC will deliver various data services result or contents.
Diagram	 <pre> classDiagram class DataFeedbackRq class Header { <<in:RequestHdrType>> } class Tracking { <<OrderTrackingType>> } class DataFeedback DataFeedbackRq --> Header DataFeedbackRq --> Tracking DataFeedbackRq --> DataFeedback </pre>
Properties	content: complex
Model	Header , Tracking , DataFeedback
Children	DataFeedback, Header, Tracking
Instance	<pre> <DataFeedbackRq> <Header IsTest="false" Version="1.0">{1,1}</Header> <Tracking>{1,1}</Tracking> <DataFeedback AsOf="" DocId="" FeedbackMessage="" FeedbackStatusCode="" FeedbackType="" LoanNumber="">{1,1}</DataFeedback> </DataFeedbackRq> </pre>

Element DataFeedbackRq / Header

Element RequestHdrType / SourceApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The name of the system sending message
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / TargetApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The Name of the system receiving the message
Diagram	
Type	string20
Properties	content: simple
Facets	maxLength 20

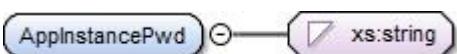
Element RequestHdrType / ApplInstance

Namespace	http://fncinc.com/Integration.xsd
Annotations	An identifier obtained from FNC
Diagram	
Type	string10
Properties	content: simple
Facets	maxLength 10

Element RequestHdrType / ApplInstanceLogin

Namespace	http://fncinc.com/Integration.xsd
Annotations	User name for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / ApplInstancePwd

Namespace	http://fncinc.com/Integration.xsd
Annotations	Password for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / Timestamp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The timestamp from sending system Formatting: ISO8601; sql type 126; yyyy-mm-ddThh:mi:ss.mmm (no spaces)
Diagram	
Type	xs:dateTime
Properties	content: simple

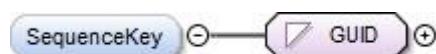
Element RequestHdrType / MessageId

Namespace	http://fncinc.com/Integration.xsd
Annotations	A unique identifier for the XML. Each unique message must have a unique MessageId.
Diagram	
Type	GUID
Properties	content: simple
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element RequestHdrType / CorrelationId

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element RequestHdrType / SequenceKey

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-

9]{4}-[a-fA-F0-9]{4}-
 [a-fA-F0-9]{12}

Element RequestHdrType / SequenceNumber

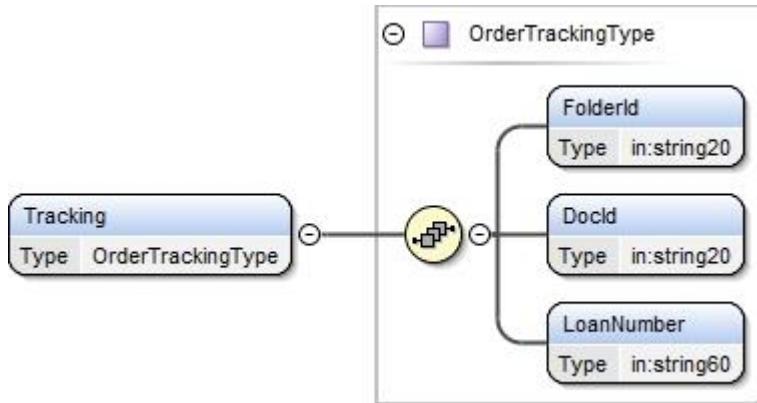
Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	xs:int
Properties	content: simple minOccurs: 0

Tracking Node Elements

Element DataFeedbackRq / Tracking

Namespace http://fncinc.com/CHQ

Diagram



Type OrderTrackingType

Properties

content:	complex
minOccurs:	1
maxOccurs:	1

Model FolderId , DocId , LoanNumber

Children DocId, FolderId, LoanNumber

Instance

```

<Tracking>
  <FolderId>{1,1}</FolderId>
  <DocId>{1,1}</DocId>
  <LoanNumber>{1,1}</LoanNumber>
</Tracking>
  
```

Element OrderTrackingType/FolderId

Namespace http://fncinc.com/CHQ

Annotations A tracking number used in CHQ.



Type string20

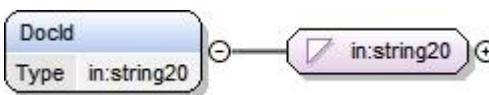
Properties

content:	simple
minOccurs:	1

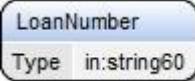
Facets

maxLength 20

Element OrderTrackingType/DocId

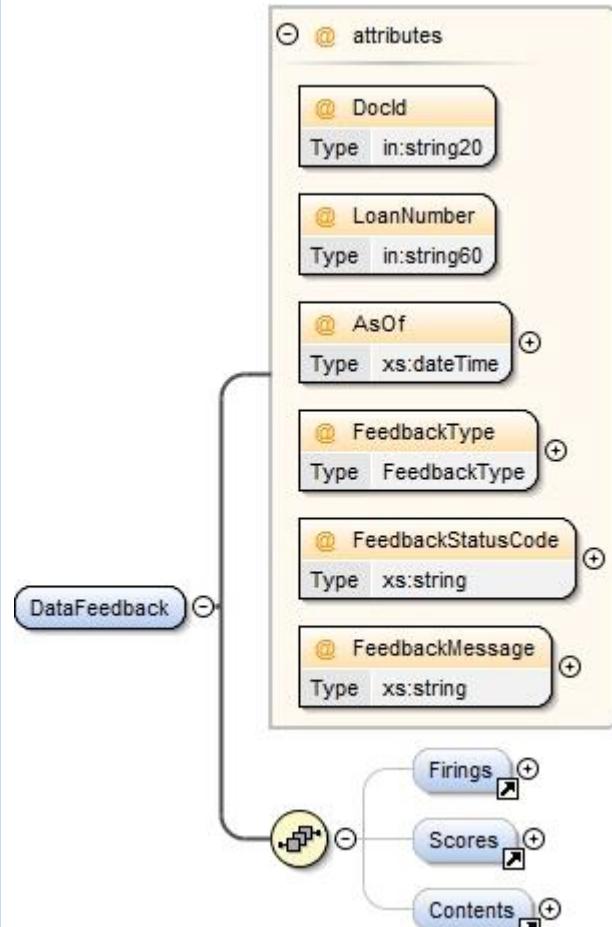
Namespace	http://fncinc.com/CHQ
Annotations	A tracking number used in CMS. DocId is also used for later status updates.
Diagram	
Type	string20
Properties	content: simple minOccurs: 1
Facets	maxLength 20

Element OrderTrackingType/LoanNumber

Namespace	http://fncinc.com/CHQ
Annotations	Loan Number; (Echoing back the received Loan Number)
Diagram	
Type	String60
Properties	content: simple minOccurs: 1

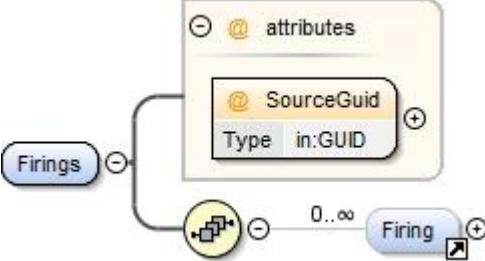
DataFeedback Node Elements

Element DataFeedback

Namespace	http://fncinc.com/CHQ
Diagram	

Properties	content: complex																																										
Used by	Element DataFeedbackRq																																										
Model	Firings{0,1} , Scores{0,1} , Contents{0,1}																																										
Children	Contents, Firings, Scores																																										
Instance	<pre><DataFeedback AsOf="" DocId="" FeedbackMessage="" FeedbackStatusCode="" FeedbackType="" LoanNumber=""> <Firings SourceGuid="">{0,1}</Firings> <Scores>{0,1}</Scores> <Contents>{0,1}</Contents> </DataFeedback></pre>																																										
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>AsOf</td><td>xs:dateTime</td><td></td><td></td><td>required</td><td></td></tr> <tr> <td>DocId</td><td>string20</td><td></td><td></td><td>required</td><td></td></tr> <tr> <td>FeedbackMessage</td><td>xs:string</td><td></td><td></td><td>required</td><td></td></tr> <tr> <td>FeedbackStatusCode</td><td>xs:string</td><td></td><td></td><td>required</td><td></td></tr> <tr> <td>FeedbackType</td><td>FeedbackType</td><td></td><td></td><td>required</td><td></td></tr> <tr> <td>LoanNumber</td><td>String60</td><td></td><td></td><td>required</td><td></td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	Annotation	AsOf	xs:dateTime			required		DocId	string20			required		FeedbackMessage	xs:string			required		FeedbackStatusCode	xs:string			required		FeedbackType	FeedbackType			required		LoanNumber	String60			required	
QName	Type	Fixed	Default	Use	Annotation																																						
AsOf	xs:dateTime			required																																							
DocId	string20			required																																							
FeedbackMessage	xs:string			required																																							
FeedbackStatusCode	xs:string			required																																							
FeedbackType	FeedbackType			required																																							
LoanNumber	String60			required																																							

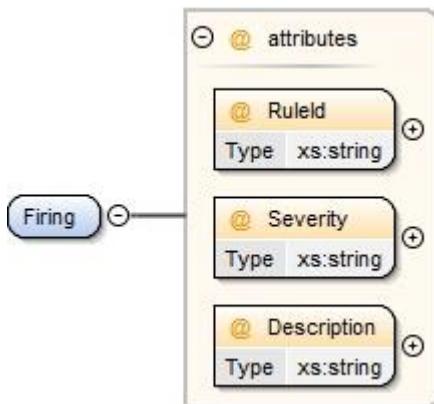
Element Firings

Namespace	http://fncinc.com/CHQ												
Annotations	GUID : the unique identifier to the underlying data, usually the xml												
Diagram	 <pre> classDiagram class Firings class Firing { @attribute SourceGuid : GUID } Firings "1" -- "0..∞" Firing </pre>												
Properties	content: complex												
Used by	Element DataFeedback												
Model	Firing*												
Children	Firing												
Instance	<pre><Firings SourceGuid=""> <Firing Description="" RuleId="" Severity="">{0,unbounded}</Firing> </Firings></pre>												
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>SourceGuid</td><td>GUID</td><td></td><td></td><td>required</td><td></td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	Annotation	SourceGuid	GUID			required	
QName	Type	Fixed	Default	Use	Annotation								
SourceGuid	GUID			required									

Element Firing

Namespace	http://fncinc.com/CHQ
Annotations	Each firing represent a GAAR rule

Diagram



Properties

content: complex

Used by

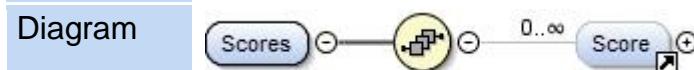
Element Firings

Attributes

QName	Type	Fixed	Default	Use	Annotation
Description	xs:string			required	
RuleId	xs:string			required	
Severity	xs:string			required	

Element Scores

Namespace <http://fncinc.com/CHQ>



Properties

content: complex

Used by

Element DataFeedback

Model

Score*

Children

Score

Instance

```

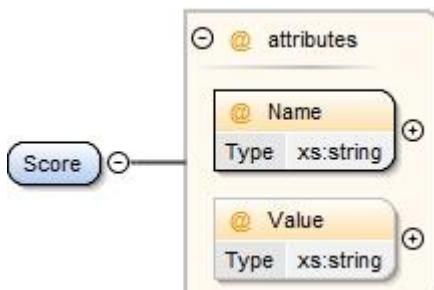
<Scores>
  <Score Name="" Value="">{0,unbounded}</Score>
</Scores>
  
```

Element Score

Namespace <http://fncinc.com/CHQ>

Annotations Use the Name to retrieve the proper score. For GAAR Score the Name='GAAR'

Diagram



Properties

content: complex

Used by

Element Scores

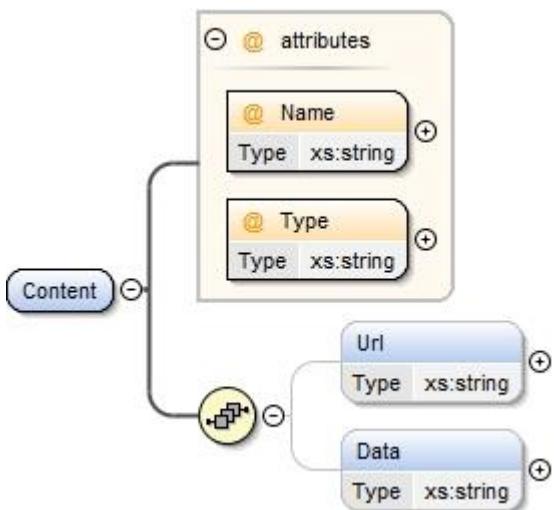
Attributes

QName	Type	Fixed	Default	Use	Annotation
Name	xs:string			required	
Value	xs:string			optional	

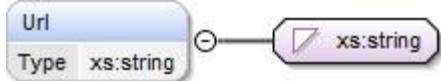
Element Contents

Namespace	http://fncinc.com/CHQ
Diagram	
Properties	content: complex
Used by	Element DataFeedback
Model	Content*
Children	Content
Instance	<pre><Contents> <Content Name="" Type="">{0,unbounded}</Content> </Contents></pre>

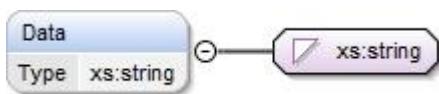
Element Content

Namespace	http://fncinc.com/CHQ																		
Annotations	Different																		
Diagram																			
Properties	content: complex																		
Used by	Element Contents																		
Model	Url{0,1} , Data{0,1}																		
Children	Data, Url																		
Instance	<pre><Content Name="" Type=""> <Url>{0,1}</Url> <Data>{0,1}</Data> </Content></pre>																		
Attributes	<table> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>Name</td> <td>xs:string</td> <td></td> <td></td> <td>required</td> <td></td> </tr> <tr> <td>Type</td> <td>xs:string</td> <td></td> <td></td> <td>required</td> <td></td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	Annotation	Name	xs:string			required		Type	xs:string			required	
QName	Type	Fixed	Default	Use	Annotation														
Name	xs:string			required															
Type	xs:string			required															

Element Content / Url

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Element Content / Data

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Business and Processing Rules

Simple Type **FeedbackType**

Namespace	http://fncinc.com/CHQ
Annotations	Simple type for a state code (enum)
Diagram	
Type	restriction of xs:string
Facets	enumeration GAARREVIEW enumeration AIXML
Used by	Attribute DataFeedback/@FeedbackType

Sample Post XML

GAAR REVIEW ONLY

```

<?xml version="1.0" encoding="utf-8"?>
<DataFeedbackRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header Version="1.0">
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">CHQ</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">LOS</TargetApp>
    <AppInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</AppInstance>
    <AppInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</AppInstanceLogin>
    <AppInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123</AppInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2011-02-11T09:10:30.3958084-08:00</Timestamp>
    <MessageId xmlns="http://fncinc.com/Integration.xsd">a7bdd82f-68e5-4057-90c2-f88eeaecc139a</MessageId>
  </Header>
  <Tracking>
    <FolderId>20110211-0091</FolderId>
    <DocId>20110211-0091-1</DocId>
    <LoanNumber>8000093185</LoanNumber>
  </Tracking>
  <DataFeedback DocId="20110211-0091-1" LoanNumber="8000093185" AsOf="2011-02-11T09:05:00"
    FeedbackType="GAARREVIEW" FeedbackStatusCode="True" FeedbackMessage="">
    <Firings SourceGuid="45421539-2A49-479A-8C61-06BEE1687980">
      <Firing RuleId="FNC-EXT-PROP-000-08" Severity="2" Description="Age of Comp as reported in the NCD varies
        significantly from the subject's Age as reported in the NCD (1997) for at least 2 of the 1st 3 comps"/>
      <Firing RuleId="FNC-EXT-MKT-000-25" Severity="2" Description="County Level Market Trend: Median Price Trend
        indicates Stable market. The Appraisal Report Neighborhood Housing Trends notes: Property Values DECLINING"/>
      <Firing RuleId="FNC-EXT-VAL-000-04" Severity="2" Description="Lot size of comparable 2 reported by Appraiser
        (.10 acres) differs significantly from the NCD (5128)"/>
    </Firings>
    <Scores>
      <Score Name="Appraisal Score" Value="707"/>
    </Scores>
    <Contents>
      <Content Name="Appraisal Score Link" Type="URL">
        <Url>https://filebank.gofnc.com/gaarrpt/90DD5655-6B56-46D0-B8DF-36AB407E8729/AS/PDF</Url>
      </Content>
    </Contents>
  </DataFeedback>
</DataFeedbackRq>

```

APPRAISAL DATA ONLY

```

<?xml version="1.0" encoding="utf-8"?>
<DataFeedbackRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header Version="1.0">
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">CHQ</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">LOS</TargetApp>
    <AppInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</AppInstance>
    <AppInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</AppInstanceLogin>
    <AppInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123</AppInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2010-11-10T10:33:08.6655716-06:00</Timestamp>
    <MessageId xmlns="http://fncinc.com/Integration.xsd">af0aef49-bdf2-4462-aac1-6829e3d486bd</MessageId>
  </Header>
  <Tracking>

```

```

<FolderId>20101104-1115</FolderId>
<DocId>20101104-1115-1</DocId>
<LoanNumber>1104002</LoanNumber>
</Tracking>
<DataFeedback DocId="20101104-1115-1" LoanNumber="1104002" AsOf="2010-11-10T10:33:06.093"
FeedbackType="AIXML" FeedbackStatusCode="False" FeedbackMessage="Missing Minor Form">
<Contents>
<Content Name="OADI" Type="XML">
<Data>&lt;FORMINFO FORMNUM="1004" VENDOR="CDNA" VERSION="2.5" DOCID=""
FILENUM="40378MOF" OPTOUT="NO" FORMVERSION="3-2005" CASE_NO=""
MAINFORM="1004"&gt;&lt;SUBJECT&gt;&lt;ADDR&gt;&lt;CITY&gt;Bakersfield&lt;/CITY&gt;&lt;STATEPROV&gt;
&lt;CA&lt;/STATEPROV&gt;&lt;ZIP&gt;93305&lt;/ZIP&gt;&lt;STREET&gt;1208
Tulare
Street&lt;/STREET&gt;&lt;/ADDR&gt;&lt;COUNTY&gt;KERN&lt;/COUNTY&gt;&lt;HOMEOWNERASSNFEES>
n/a&lt;/HOMEOWNERASSNFEES>&lt;TAXYEAR&gt;03-
04&lt;/TAXYEAR&gt;&lt;SALES&gt;&lt;PRICE&gt;n/a&lt;/PRICE&gt;&lt;DATE&gt;n/a&lt;/DATE&gt;&lt;SALES&gt;&lt;CENSU
STRACT&gt;9.03&lt;/CENSUSTRACT&gt;&lt;NBRHOODPROJNAME&gt;East
Bakersfield&lt;/NBRHOODPROJNAME&gt;&lt;BORROWER&gt;George andamp; Gladys
Seamster&lt;/BORROWER&gt;&lt;MAPREF&gt;2442
H4&lt;/MAPREF&gt;&lt;LOANCHARGE&gt;&lt;DESCRIPTION&gt;n/a&lt;/DESCRIPTION&gt;&lt;LOANCHARG
E&gt;&lt;CURRENTOCCUPANT&gt;OWNER&lt;/CURRENTOCCUPANT&gt;&lt;PROPRIGHTS&gt;FEESIMPLE&lt;/PROPRI
GHTS&gt;&lt;LEGAL&gt;&lt;DESCRIPTION&gt;CITY
ABBR KERN , BLOCK 22 , CITY LOT
P&lt;/DESCRIPTION&gt;&lt;LEGAL&gt;&lt;RETAXES&gt;607.16&lt;/RETAXES&gt;&lt;CURRENTOWNER&gt;S
eamster&lt;/CURRENTOWNER&gt;&lt;SPECIALASSESS&gt;n/a&lt;/SPECIALASSESS&gt;&lt;ASSESPARCEL&gt;&lt;NUM
&gt;014-070-11-00-
4&lt;/NUM&gt;&lt;ASSESPARCEL&gt;&lt;SUBJECT&gt;&lt;SALESCOMP&gt;&lt;SUBJECT&gt;&lt;AGEYRS&gt;62
Years&lt;/AGEYRS&gt;&lt;SITE&gt;3,750
SqFt&lt;/SITE&gt;&lt;VIEW&gt;Residential&lt;/VIEW&gt;&lt;ABOVEGRADE&gt;&lt;BATH&gt;1.75&lt;/BATH&gt;&lt;
BEDROOMS&gt;2&lt;/BEDROOMS&gt;&lt;ROOMTOT&gt;6&lt;/ROOMTOT&gt;&lt;ABOVEGRADE&gt;&lt;LIVINGSQFT&gt;
1422&lt;/LIVINGSQFT&gt;&lt;LOCATION&gt;Average&lt;/LOCATION&gt;&lt;CONDITION&gt;Average&lt;/CONDITION&gt;&lt;
FENCEPOOL&gt;Fence&lt;/FENCEPOOL&gt;&lt;SALESPRICE&gt;n/a&lt;/SALESPRICE&gt;&lt;DATA&gt;Inspection&lt;/DA
TA&gt;&lt;VERIFICATION&gt;MetroScan/AIRD&lt;/VERIFICATION&gt;&lt;PRICEGROSSLIVING&gt;0.00&lt;/PRICEGROSS
LIVING&gt;&lt;GARAGE&gt;1-Car
Garage&lt;/GARAGE&gt;&lt;LEASEFEE&gt;Fee
Simple&lt;/LEASEFEE&gt;&lt;DESIGNSTYLE&gt;Contemporary&lt;/DESIGNSTYLE&gt;&lt;HEATINGCOOL&gt;
Wall/2
Evaps&lt;/HEATINGCOOL&gt;&lt;PORCHPATIO&gt;Enc.Patio/C.Porch&lt;/PORCHPATIO&gt;&lt;FIREPLACE&
gt;1
Fireplace&lt;/FIREPLACE&gt;&lt;PRIORSALE&gt;&lt;DATE&gt;n/a&lt;/DATE&gt;&lt;PRICE&gt;MetroScan&lt;/P
RICE&gt;&lt;PRIORSALE&gt;&lt;BASEMENT&gt;None&lt;/BASEMENT&gt;&lt;BASEMENTFINISH&gt;None&lt;/BASEMENT
FINISH&gt;&lt;ENERGYEFF&gt;Average&lt;/ENERGYEFF&gt;&lt;FUNCTIONAL&gt;Average&lt;/FUNCTIONAL&gt;&lt;CON
STRUCT&gt;Average&lt;/CONSTRUCT&gt;&lt;UNLABLED
NAME=""&gt;
/&gt;&lt;ADDR&gt;&lt;CITY&gt;Bakersfield&lt;/CITY&gt;&lt;STATEPROV&gt;CA&lt;/STATEPROV&gt;&lt;ZIP&gt;
93305&lt;/ZIP&gt;&lt;STREET&gt;1208
Tulare
Street&lt;/STREET&gt;&lt;/ADDR&gt;&lt;SUBJECT&gt;&lt;COMMENTSalesCompare&gt;See
Attached Addendum&lt;/COMMENTSalesCompare&gt;&lt;ANALYSISCURRENTAGREE&gt;Subject
property is not known to have been listed for sale or sold in the past three
years per MLS, AIRD, and MetroScan.&lt;/ANALYSISCURRENTAGREE&gt;&lt;COMPS
COMPNUM="1"&gt;&lt;AGEYRS AGEYRS="77" /&gt;&lt;SITE&gt;&lt;DESCRIPTION&gt;7,350
SF
+/-&lt;/DESCRIPTION&gt;&lt;ADJUST&gt;-
2000&lt;/ADJUST&gt;&lt;SITE&gt;&lt;VIEW&gt;&lt;DESCRIPTION&gt;Residential&lt;/DESCRIPTION&gt;&lt;VIEW&gt;&lt;
ABOVEGRADE&gt;&lt;BATH&gt;1&lt;/BATH&gt;&lt;BEDROOMS&gt;2&lt;/BEDROOMS&gt;&lt;ADJUST&gt;2000&lt;/ADJUST
&gt;&lt;ROOMTOT&gt;5&lt;/ROOMTOT&gt;&lt;ABOVEGRADE&gt;&lt;ADDR&gt;&lt;STREET&gt;416
NILES
STREET&lt;/STREET&gt;&lt;CITY&gt;BAKERSFIELD&lt;/CITY&gt;&lt;ADDR&gt;&lt;LIVINGSQFT&gt;&lt;SQFT
&gt;1,408&lt;/SQFT&gt;&lt;ADJUST&gt;0&lt;/ADJUST&gt;&lt;LIVINGSQFT&gt;&lt;LOCATION&gt;&lt;DESCRIPTION&gt;Traf
fic/Same
N.hd&lt;/DESCRIPTION&gt;&lt;ADJUST&gt;8000&lt;/ADJUST&gt;&lt;LOCATION&gt;&lt;CONDITION&gt;&lt;DE
SCRIPTION&gt;Average&lt;/DESCRIPTION&gt;&lt;FENCEPOOL&gt;&lt;DESCRIPTION&gt;Fence&lt;/D
ESCRIPTION&gt;&lt;FENCEPOOL&gt;&lt;PROXIMITY&gt;0.10
MI
NNW&lt;/PROXIMITY&gt;&lt;SALESPRICE&gt;90,000&lt;/SALESPRICE&gt;&lt;NETADJUST&gt;&lt;POSNeg&
gt;POSITIVE&lt;/POSNeg&gt;&lt;TOT&gt;8500&lt;/TOT&gt;&lt;NETADJUST&gt;&lt;DATA&gt;AIRD/D#245667&lt;/DATA&gt;
&lt;VERIFICATION&gt;MetroScan/MLS&lt;/VERIFICATION&gt;&lt;PRICEGROSSLIVING&gt;63.92&lt;/PRICEGROSSLIVIN
G&gt;&lt;GARAGE&gt;&lt;DESCRIPTION&gt;2-Car
Garage&lt;/DESCRIPTION&gt;&lt;ADJUST&gt;-
1500&lt;/ADJUST&gt;&lt;GARAGE&gt;&lt;LEASEFEE&gt;&lt;DESCRIPTION&gt;Fee
Simple&lt;/DESCRIPTION&gt;&lt;LEASEFEE&gt;&lt;ADJUSTSALESPRICE&gt;98500&lt;/ADJUSTSALESPRIC
E&gt;&lt;DESIGNSTYLE&gt;&lt;DESCRIPTION&gt;S.
Superior&lt;/DESCRIPTION&gt;&lt;ADJUST&gt;-
3000&lt;/ADJUST&gt;&lt;DESIGNSTYLE&gt;&lt;HEATINGCOOL&gt;&lt;DESCRIPTION&gt;FAU/Central&lt;/DESCRIPTION
&gt;&lt;HEATINGCOOL&gt;&lt;ADJUSTSALESNET&gt;9.4&lt;/ADJUSTSALESNET&gt;&lt;PORCHPATIO&gt;&lt;DESCRIP
TION&gt;Similar&lt;/DESCRIPTION&gt;&lt;PORCHPATIO&gt;&lt;FIREPLACE&gt;&lt;DESCRIPTION&gt;1-
Fireplace&lt;/FIREPLACE&gt;&lt;PRIORSALE&gt;&lt;DATE&gt;10/08/2003
$1,500.00&lt;/DATE&gt;&lt;PRICE&gt;11/07/2003 Title
Transfer&lt;/PRICE&gt;&lt;DATA&gt;MetroScan/AIRD&lt;/DATA&gt;&lt;PRIORSALE&gt;&lt;BASEMENT&gt;&lt;D
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Service </NAME></COMPANY><ADDR><STREET>8055 W. Manchester Avenue, Suite 510</STREET><CITY>Playa Del Rey</CITY><STATE>CA</STATE><ZIP>90290-2814</ZIP><S

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is made in "As Is" Condition.</CONDITIONAPPRaisal><FINALRECON>The sales comparison approach reflects the most current market value and is considered to be the most accurate indicator of value. The cost approach adds support but is given less emphasis. The income approach was not considered

applicable as residences in this area are not typically purchased for their rental income.</FINALRECON><FORMREVISED>6/93</FORMREVISED></RECONCIL><COS TAPPROACH><DWELLINGTHREE

DESCRIPTION="FP,Patio,Porch,Bltns,CT,"><AMTTOT>7500</AMTTOT></DWELLINGTHREE><COMMENTS ON COST>See attached floor plan. Building cost estimates are obtained from Marshall-Swift Valuation service. Land/Site values were obtained via the Extraction Method due to the absence of vacant land sales. Subjects Land-to-Value ratio is considered typical in the area for similar improved properties.</COMMENTS ON COST><INDICATED VALUE COST>100800</INDICATED VALUE COST><DEPRECIA TED VALUE IMPROVE>59832</DEPRECIA TED VALUE IMPROVE><DWELLING ONE><AM TTOT>85320</AMTTOT><SQFT>1422</SQFT><SQFTAMT>60.00</SQFTAMT></DWELLING ONE><DWELLING TWO

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/><VACANTA>ON</VACANTA><OCCUPANCY><MARKETCONDITIONS>Market conditions are considered favorable with values increasing and marketing time typically under 60 days for property priced homes. Conventional and government loans are the typical financing sources. Discount points paid by sellers vary depending on loan program selected and are normally between 1% and 2%; but in most cases in this area, sellers are not paying any discount points.</MARKETCONDITIONS><DEMANDSUPPLY><SHORTAGE><DEMANDSUPPLY><GROWTHRATE>STABLE</GROWTHRATE><BUILDTUP>25-75%</BUILDTUP><PROPVALUES>INCREASING</PROPVALUES><LOCATION>SUBURBAN</LOCATION><MARKETINGTIME>UNDER

3

MOS.</MARKETINGTIME><LANDUSECHANGE>NOTLIKELY</LANDUSECHANGE></NBRH OOD><PUD><UNITS><NUM>n/a</NUM><FORSALE><FORSALE><UNITS><ELEMENTSRECREATIONAL>n/a</ELEMENTSRECREATIONAL><DEVELOPBUILDCONTROL>NO</DEVELO PBUILDCONTROL><PUD><COMMENT><ADDITIONALFEATURES>See Attached Addendum</ADDITIONALFEATURES><ADVERSECONDITIONS>There were no visibly apparent hazardous materials located on the subject site.</ADVERSECONDITIONS><CONDITIONIMPROVE>Subject is an average quality home in overall average condition reflecting average maintenance levels. There is a functional floorplan with no physical or external inadequacies noted.</CONDITIONIMPROVE><COMMENT><LENDERCLIENT><NAME>Mortgage Options Financial</NAME><ADDR><STREET>10650 Treena Street Ste 212, San Diego, CA 92131</STREET><ZIP><ZIP><STATEPROV></STATEPROV><CITY></CITY><ADDR><COMPANY><NAME></NAME><EMAIL></EMAIL></LENDER CLIENT><ADDENDUMS><ADDENDA ADDENDANUM="1"><NAME>Comparables, Subject: Date of Sale/Time</NAME><VALUE>n/a</VALUE><ADDENDA><ADDENDA ADDENDANUM="2"><NAME>Economic Age Basis</NAME><VALUE>85</VALUE><ADDENDA><ADDENDA ADDENDANUM="3"><NAME>Comments on Sales Comparison</NAME><VALUE>Appraiser has utilized the most similar sales within the subjects market area and adjusted for significant differences. C-1 is within the subjects neighborhood, however situated on a heavily traveled arterial roadway. Comps 2 and 3 were taken from a slightly superior neighborhood north of the subject, due to the lack of more similar sales in the immediate neighborhood. Time adjustment were considered, due to increasing values within this market area. Recent MLS studies and attached newspaper article show an increase of 18.2%or more within the subjects market area in the past year. Comparables were adjusted at 1.82% per month. Comparables were the best available market data at the time of this appraisal and were given about equal weight in the final analysis. Line, net and gross adjustments may exceed standard appraisal guidelines, however unavoidable and made to market.</VALUE><ADDENDA><ADDENDA ADDENDANUM="4"><NAME>Additional Features</NAME><VALUE>This average Ranch style home features an attached one car garage; storage attached to the rear of the house; enclosed patio; covered porch; brick fireplace; an addition of a family room and .75 bathroom; tiled counter in the bathroom; hardwood floors throughout; and

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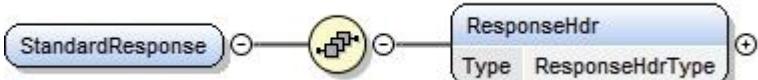
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A431D98C122A" FILENAME="image2.jpg" EXT=".jpg" /><ATTACHMENT
SHA1="70834DFE1C867313F072E5D6AC713528DFE4C8E5" GUID="EE8B0262-C6C6-4258-9E65-171215D2994A"
DOCTYPE="IMAGE/SUBJECTSTREETVIEW" TYPE="IMAGE/JPG" ENV_GUID="C379E4D0-B40D-4E69-B988-
A431D98C122A" FILENAME="image3.jpg" EXT=".jpg" /><ATTACHMENT
SHA1="C50C31F967814BD37648AB9A54541719EF0DD9FA" GUID="6932E31C-E9BD-4DC8-9000-47D878A0EFA0"
DOCTYPE="IMAGE/SUBJECTADDITIONAL1" TYPE="IMAGE/JPG" ENV_GUID="C379E4D0-B40D-4E69-B988-
A431D98C122A" FILENAME="image4.jpg" EXT=".jpg" /><ATTACHMENT
SHA1="C50C31F967814BD37648AB9A54541719EF0DD9FA" GUID="CF609BFE-D9C1-4FAE-9D34-41E599E832EC"
DOCTYPE="IMAGE/SUBJECTADDITIONAL2" TYPE="IMAGE/JPG" ENV_GUID="C379E4D0-B40D-4E69-B988-
A431D98C122A" FILENAME="image5.jpg" EXT=".jpg" /><ATTACHMENT
SHA1="C50C31F967814BD37648AB9A54541719EF0DD9FA" GUID="7F5CD8AC-B445-4EE0-A1F7-18EA757726C3"
DOCTYPE="IMAGE/SUBJECTADDITIONAL3" TYPE="IMAGE/JPG" ENV_GUID="C379E4D0-B40D-4E69-B988-
A431D98C122A" FILENAME="image6.jpg" EXT=".jpg" /><ATTACHMENT
SHA1="D6D41DA947092DD4BBFD3246D4DED7152081C9DF" GUID="16B00CF5-6F92-44AB-A6D7-F5C488C974D7"
DOCTYPE="IMAGE/ADDITIONALPHOTO1" TYPE="IMAGE/JPG" ENV_GUID="C379E4D0-B40D-4E69-B988-
A431D98C122A" FILENAME="image7.jpg" EXT=".jpg" /><ATTACHMENT
SHA1="D6D41DA947092DD4BBFD3246D4DED7152081C9DF" GUID="D1DAB3B8-E581-4D0B-9255-4B68BED20BDB"
DOCTYPE="IMAGE/ADDITIONALPHOTO2" TYPE="IMAGE/JPG" ENV_GUID="C379E4D0-B40D-4E69-B988-
A431D98C122A" FILENAME="image8.jpg" EXT=".jpg" /><ATTACHMENT
SHA1="D6D41DA947092DD4BBFD3246D4DED7152081C9DF" GUID="5F9138C8-9FB8-4892-965E-FE319E643984"
DOCTYPE="IMAGE/ADDITIONALPHOTO3" TYPE="IMAGE/JPG" ENV_GUID="C379E4D0-B40D-4E69-B988-
A431D98C122A" FILENAME="image9.jpg" EXT=".jpg" /><ATTACHMENT
SHA1="B88AF93480977CB5B8945167DD8BFDED68AE451A" GUID="1B2BFB39-4918-46F4-9702-165A2D033632"
DOCTYPE="IMAGE/COMPPHOTO1" TYPE="IMAGE/JPG" ENV_GUID="C379E4D0-B40D-4E69-B988-A431D98C122A"
FILENAME="image10.jpg" EXT=".jpg" /><ATTACHMENT
SHA1="911DAD3D37C4C1A8ACDDAAE25718742549425EAD" GUID="9BAA6865-A62F-4B0B-BFDE-9380E3146A25"
DOCTYPE="IMAGE/COMPPHOTO2" TYPE="IMAGE/JPG" ENV_GUID="C379E4D0-B40D-4E69-B988-A431D98C122A"
FILENAME="image11.jpg" EXT=".jpg" /><ATTACHMENT SHA1="567A6E45F190A455ECC978DA62F83160602F8999"
GUID="803A1048-3722-4C39-AF4A-BB2BB8BFB052" DOCTYPE="IMAGE/COMPPHOTO3" TYPE="IMAGE/JPG"
ENV_GUID="C379E4D0-B40D-4E69-B988-A431D98C122A" FILENAME="image12.jpg" EXT=".jpg" /><ATTACHMENT
SHA1="9E0D5B3DC45DAC853B27CEBA93826DD499B26C2C" GUID="DEF9B508-C18B-478A-A99D-E5C8B7FD41BE"
DOCTYPE="IMAGE/LOCATIONMAP" TYPE="IMAGE/JPG" ENV_GUID="C379E4D0-B40D-4E69-B988-A431D98C122A"
FILENAME="image13.jpg" EXT=".jpg" /><FORMINFO></Data>
</Content>
<Content Name="Appraisal Score Link" Type="URL">
<Url>https://uatfilebank.fncinc.com/gaarrpt/7F2EC82A-1B09-44DA-9D36-1C77808E2E09/AS/PDF</Url>
</Content>
<Contents>

```
</DataFeedback>
</DataFeedbackRq>
```

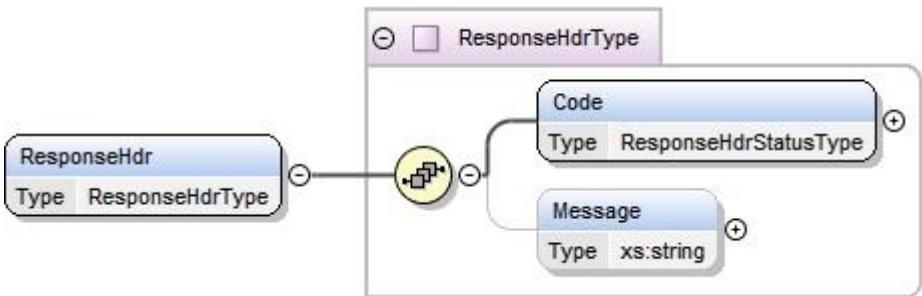
Standard LOS Response

CMS expects a response from the LOS. The response may also return a processing error and message.

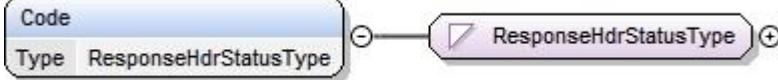
Element StandardResponse

Namespace	http://fncinc.com/Integration.xsd
Annotations	The element sent for an simple response
Diagram	
Properties	content: complex
Model	ResponseHdr
Children	ResponseHdr
Instance	<pre><StandardResponse> <ResponseHdr>{1,1}</ResponseHdr> </StandardResponse></pre>

Element StandardResponse/ResponseHdr

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	ResponseHdrType
Properties	content: complex
Model	Code , Message{0,1}
Children	Code, Message
Instance	<pre><ResponseHdr> <Code>{1,1}</Code> <Message>{0,1}</Message> </ResponseHdr></pre>

Element ResponseHdrType/Code

Namespace	http://fncinc.com/Integration.xsd
Diagram	 <pre> classDiagram class ResponseHdrStatusType { <<Code>> } ResponseHdrStatusType "1" --> "1" ResponseHdrStatusType class ResponseHdrStatusType { <<Type>> <<xs:string>> } </pre>
Type	ResponseHdrStatusType
Properties	content: simple
Facets	enumeration OK enumeration ApplicationError enumeration SystemError enumeration ReferentialIntegrityError

Element ResponseHdrType/Message

Namespace	http://fncinc.com/Integration.xsd
Diagram	 <pre> classDiagram class xs:string { <<Message>> } xs:string "1" --> "1" xs:string class xs:string { <<Type>> <<xs:string>> } </pre>
Type	xs:string
Properties	content: simple minOccurs: 0

Sample XML

A simplified version of Response XML is below:

```

<StandardResponse xsi:schemaLocation="http://fncinc.com/CHQ CMS.xsd"
  xmlns:in="http://fncinc.com/Integration.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
  instance">
  <ResponseHdr>
    <Code>OK</Code>
    <Message/>
  </ResponseHdr>
</StandardResponse>
  
```

The LOS is expected to respond with a <StatusUpdateRs>. The only child element defined is <Header> which is the same type as the <Header> in <CreateOrderRs>.

:: DataFeedback Request

This alternate DataFeedback Touch Point originates from the LOS. This update is triggered when the order's DataFeedback is requested from CMS. The DataFeedback post is transferred from CMS to the Client System (ordering system).

Actors

CMS	This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.
Client System	System responsible for data management and originating orders

Preconditions – Credentials entered into CMS interface setup

Post Conditions – DataFeedback sent from LOS and processed in CMS.

▶ Main Scenario

1. LOS sends DataFeedback request to CMS
2. CMS responds with DataFeedback to Client System.
3. Client System receives DataFeedback and validates XML.
4. Client System updates order in its system with updated order information.

▶ Alternate Scenarios

1. Can't connect to CMS – System Error
2. CMS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. CMS sends a failure acknowledgement – an application error occurred.
4. CMS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

XML Post URL

UAT URL: <https://collateralhq.fncinc.com/interface/losrequest.ashx>

Production URL: <https://www.collateralhq.com/interface/losrequest.ashx>

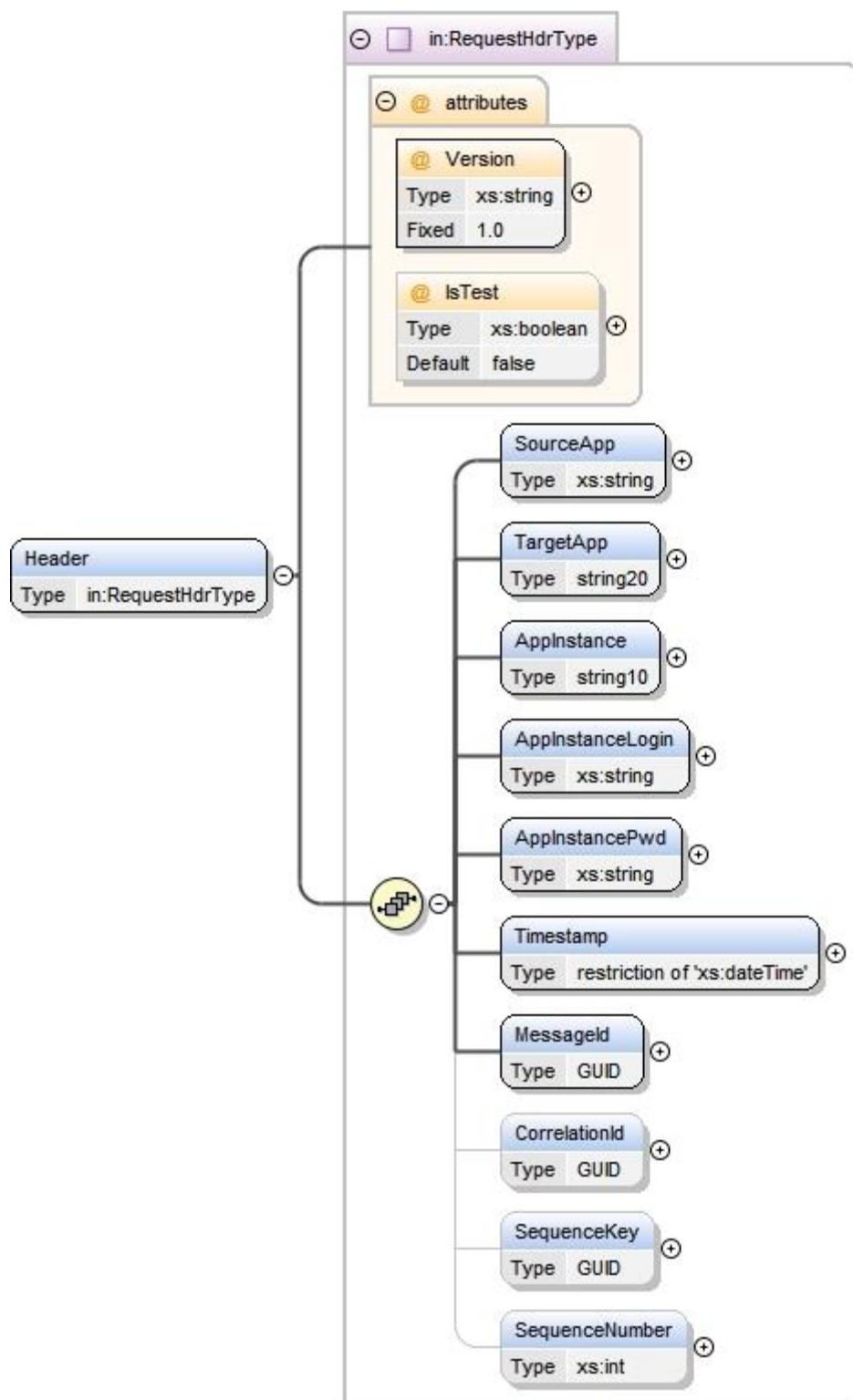
XML Structure Overview

Element `RetrieveDataFeedbackRq`

Namespace	<code>http://fncinc.com/CHQ</code>
Annotations	The Status Updates Touch Point originates from the LOS. This update is triggered when the order's status request is received by CMS. Order updates are transferred from CMS to the Client System (ordering system).
Diagram	
Properties	<code>content: complex</code>
Model	Header , Tracking
Children	Header, Tracking
Instance	<pre><RetrieveDataFeedbackRq> <Header IsTest="false" Version="1.0">{1,1}</Header> <Tracking>{1,1}</Tracking> </RetrieveDataFeedbackRq></pre>

Element RetrieveDataFeedbackRq/Header
Namespace http://fncinc.com/CHQ

Annotations
 SourceApp = LOS
 TargetApp = CHQ

Diagram

Type RequestHdrType

Properties content: complex

Model SourceApp , TargetApp , ApplInstance , ApplInstanceLogin , ApplInstancePwd , Timestamp , MessageId , CorrelationId{0,1} , SequenceKey{0,1} , SequenceNumber{0,1}

Children ApplInstance, ApplInstanceLogin, ApplInstancePwd, CorrelationId, MessageId, SequenceKey, SequenceNumber, SourceApp, TargetApp, Timestamp

Instance

```
<Header IsTest="false" Version="1.0">
<SourceApp>{1,1}</SourceApp>
<TargetApp>{1,1}</TargetApp>
<ApplInstance>{1,1}</ApplInstance>
```

```

<ApplInstanceLogin>{1,1}</ApplInstanceLogin>
<ApplInstancePwd>{1,1}</ApplInstancePwd>
<Timestamp>{1,1}</Timestamp>
<MessageId>{1,1}</MessageId>
<CorrelationId>{0,1}</CorrelationId>
<SequenceKey>{0,1}</SequenceKey>
<SequenceNumber>{0,1}</SequenceNumber>
</Header>

```

Attributes

	QName	Type	Fixed	Default	Use	Annotation
	IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.
	Version	xs:string	1.0		required	Based on schema

Element RequestHdrType / SourceApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The name of the system sending message
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / TargetApp

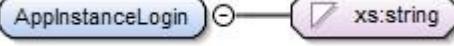
Namespace	http://fncinc.com/Integration.xsd
Annotations	The Name of the system receiving the message
Diagram	
Type	string20
Properties	content: simple
Facets	maxLength 20

Element RequestHdrType / ApplInstance

Namespace	http://fncinc.com/Integration.xsd
Annotations	An identifier obtained from FNC
Diagram	
Type	string10
Properties	content: simple
Facets	maxLength 10

Element RequestHdrType / ApplInstanceLogin

Namespace	http://fncinc.com/Integration.xsd
Annotations	User name for authentication (managed in CHQ)

Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / AppInstancePwd

Namespace	http://fncinc.com/Integration.xsd
Annotations	Password for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / Timestamp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The timestamp from sending system Formatting: ISO8601; sql type 126; yyyy-mm-ddThh:mi:ss.mmm (no spaces)
Diagram	
Type	xs:dateTime
Properties	content: simple

Element RequestHdrType / MessageId

Namespace	http://fncinc.com/Integration.xsd
Annotations	A unique identifier for the XML. Each unique message must have a unique MessageId.
Diagram	
Type	GUID
Properties	content: simple
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element RequestHdrType / CorrelationId

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-

9]{4}-[a-fA-F0-9]{4}-
 [a-fA-F0-9]{12}

Element RequestHdrType / SequenceKey

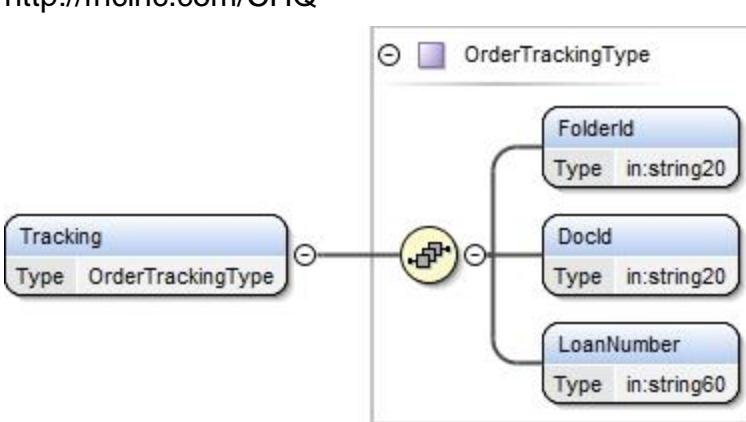
Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	content: simple minOccurs: 0
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element RequestHdrType / SequenceNumber

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	xs:int
Properties	content: simple minOccurs: 0

RetrieveOrderSummary Node

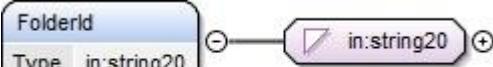
Element RetrieveDataFeedbackRq/Tracking

Namespace	http://fncinc.com/CHQ
Diagram	
Type	OrderTrackingType
Properties	content: complex minOccurs: 1 maxOccurs: 1
Model	FolderId , DocId , LoanNumber
Children	DocId, FolderId, LoanNumber

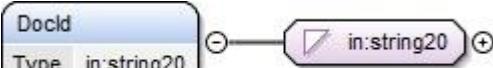
Instance

```
<Tracking>
<FolderId>{1,1}</FolderId>
<DocId>{1,1}</DocId>
<LoanNumber>{1,1}</LoanNumber>
</Tracking>
```

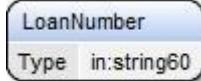
Element OrderTrackingType / FolderId

Namespace	http://fncinc.com/CHQ
Annotations	A tracking number used in CMS.
Diagram	
Type	string20
Properties	content: simple minOccurs: 1
Facets	maxLength 20

Element OrderTrackingType / DocId

Namespace	http://fncinc.com/CHQ
Annotations	A tracking number used in CMS. DocId is also used for later status updates.
Diagram	
Type	string20
Properties	content: simple minOccurs: 1
Facets	maxLength 20

Element OrderTrackingType / LoanNumber

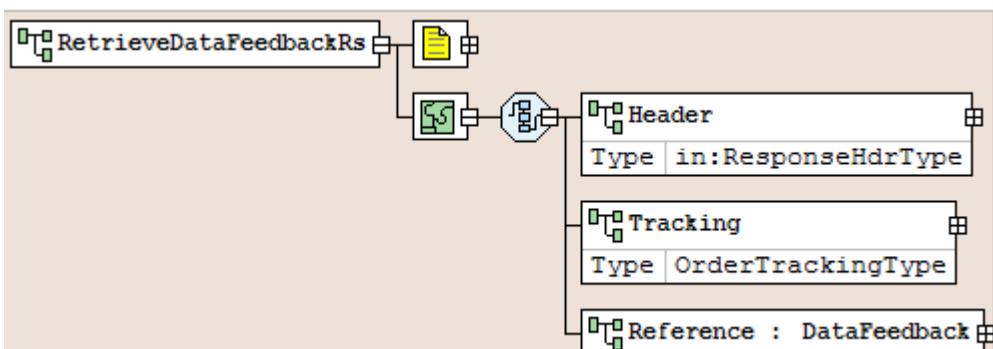
Namespace	http://fncinc.com/CHQ
Annotations	Loan Number; (Echoing back the received Loan Number)
Diagram	
Type	String60
Properties	content: simple minOccurs: 1

Sample DataFeedback Update XML

```
<?xml version="1.0" encoding="utf-8"?>
<RetrieveDataFeedbackRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header>
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">LOS</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">CHQ</TargetApp>
    <AppInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</AppInstance>
    <AppInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</AppInstanceLogin>
    <AppInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123</AppInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2011-06-22T15:39:46.15</Timestamp>
    <MessageId xmlns="http://fncinc.com/Integration.xsd">adde39c1-eb85-4223-d211-82a0a13b2125</MessageId>
  </Header>
  <Tracking>
    <FolderId>20120813-0121</FolderId>
    <DocId>20120813-0121-1</DocId>
    <LoanNumber>33334</LoanNumber>
  </Tracking>
</RetrieveDataFeedbackRq>
```

CMS DataFeedback Request Response

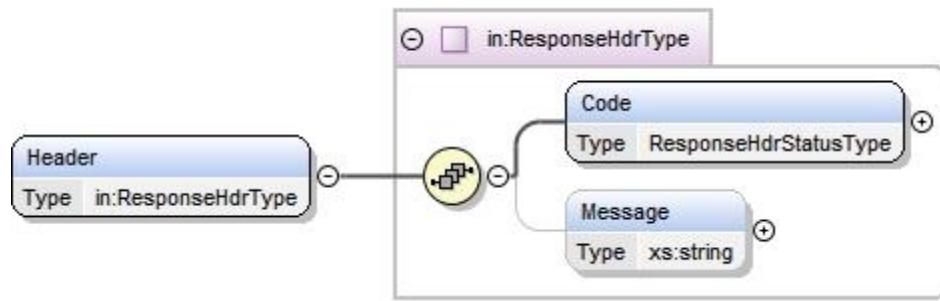
Element RetrieveDataFeedbackRs

Namespace	http://fncinc.com/CHQ
Annotations	Response containing order status information
Diagram	
Properties	content: complex
Model	Header , StatusUpdate
Children	Header, StatusUpdate
Instance	<RetrieveDataFeedbackRs> <Header>{1,1}</Header> <StatusUpdate>{1,1}</StatusUpdate> </RetrieveDataFeedbackRs>

Element RetrieveDataFeedbackRs/Header

Namespace	http://fncinc.com/CHQ
-----------	-----------------------

Diagram



Type ResponseHdrType

Properties content: complex

Model Code , Message{0,1}

Children Code, Message

Instance

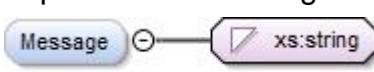

```

<Header>
  <Code>{1,1}</Code>
  <Message>{0,1}</Message>
</Header>
      
```

Element ResponseHdrType / Code

Namespace	http://fncinc.com/Integration.xsd
Diagram	 <pre> classDiagram class Code class ResponseHdrStatusType Code --> ResponseHdrStatusType </pre>
Type	ResponseHdrStatusType
Properties	content: simple
Facets	enumeration OK enumeration ApplicationError enumeration SystemError enumeration ReferentialIntegrityError

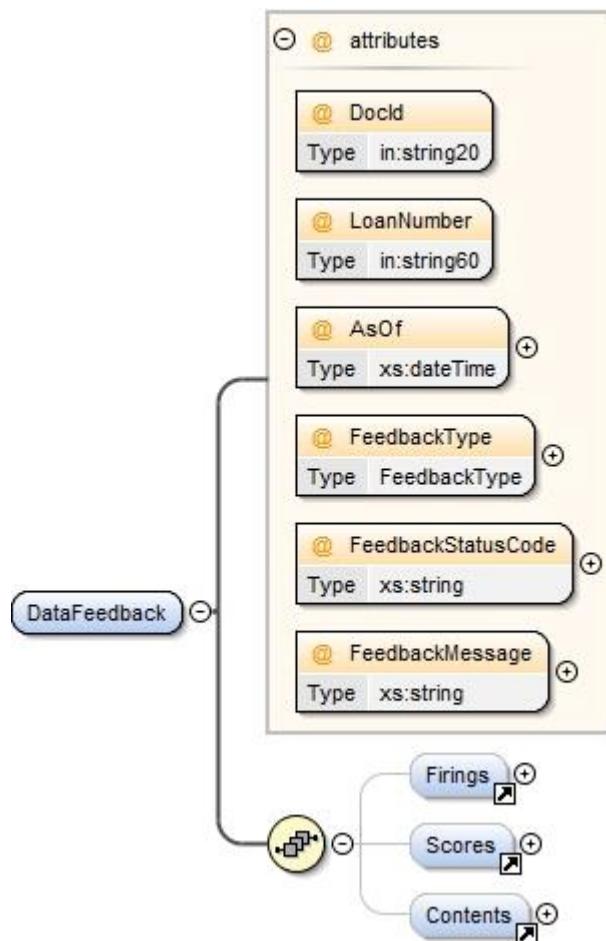
Element ResponseHdrType / Message

Namespace	http://fncinc.com/Integration.xsd
Diagram	 <pre> classDiagram class Message class xs:string Message --> xs:string </pre>
Type	xs:string
Properties	content: simple minOccurs: 0

DataFeedback Node Elements

Element DataFeedback

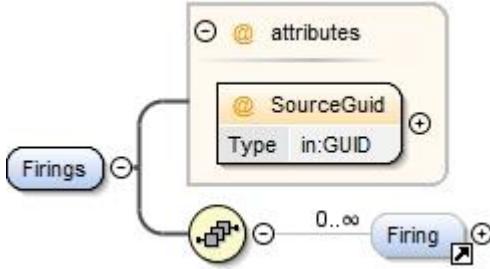
Namespace http://fncinc.com/CHQ

Diagram


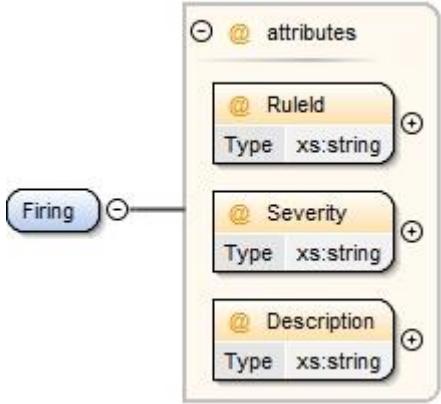
Properties	content: complex																																										
Used by	Element DataFeedbackRq																																										
Model	Firings{0,1} , Scores{0,1} , Contents{0,1}																																										
Children	Contents, Firings, Scores																																										
Instance	<DataFeedback AsOf="" DocId="" FeedbackMessage="" FeedbackStatusCode="" FeedbackType="" LoanNumber=""> <Firings SourceGuid="">{0,1}</Firings> <Scores>{0,1}</Scores> <Contents>{0,1}</Contents> </DataFeedback>																																										
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>AsOf</td><td>xs:dateTime</td><td></td><td></td><td>required</td><td></td></tr> <tr> <td>DocId</td><td>string20</td><td></td><td></td><td>required</td><td></td></tr> <tr> <td>FeedbackMessage</td><td>xs:string</td><td></td><td></td><td>required</td><td></td></tr> <tr> <td>FeedbackStatusCode</td><td>xs:string</td><td></td><td></td><td>required</td><td></td></tr> <tr> <td>FeedbackType</td><td>FeedbackType</td><td></td><td></td><td>required</td><td></td></tr> <tr> <td>LoanNumber</td><td>String60</td><td></td><td></td><td>required</td><td></td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	Annotation	AsOf	xs:dateTime			required		DocId	string20			required		FeedbackMessage	xs:string			required		FeedbackStatusCode	xs:string			required		FeedbackType	FeedbackType			required		LoanNumber	String60			required	
QName	Type	Fixed	Default	Use	Annotation																																						
AsOf	xs:dateTime			required																																							
DocId	string20			required																																							
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FeedbackStatusCode	xs:string			required																																							
FeedbackType	FeedbackType			required																																							
LoanNumber	String60			required																																							

Element Firings

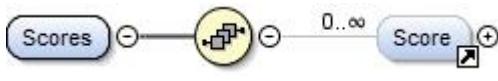
Namespace	http://fncinc.com/CHQ
Annotations	GUID : the unique identifier to the underlying data, usually the xml

Diagram													
Properties	content: complex												
Used by	Element DataFeedback												
Model	Firing*												
Children	Firing												
Instance	<pre><Firings SourceGuid=""> <Firing Description="" RuleId="" Severity="">{0,unbounded}</Firing> </Firings></pre>												
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>SourceGuid</td><td>GUID</td><td></td><td></td><td>required</td><td></td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	Annotation	SourceGuid	GUID			required	
QName	Type	Fixed	Default	Use	Annotation								
SourceGuid	GUID			required									

Element Firing

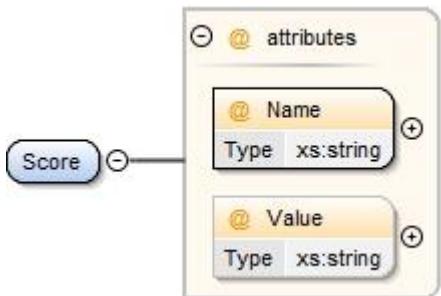
Namespace	http://fncinc.com/CHQ																								
Annotations	Each firing represent a GAAR rule																								
Diagram																									
Properties	content: complex																								
Used by	Element Firings																								
Attributes	<table border="1"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>Description</td><td>xs:string</td><td></td><td></td><td>required</td><td></td></tr> <tr> <td>RuleId</td><td>xs:string</td><td></td><td></td><td>required</td><td></td></tr> <tr> <td>Severity</td><td>xs:string</td><td></td><td></td><td>required</td><td></td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	Annotation	Description	xs:string			required		RuleId	xs:string			required		Severity	xs:string			required	
QName	Type	Fixed	Default	Use	Annotation																				
Description	xs:string			required																					
RuleId	xs:string			required																					
Severity	xs:string			required																					

Element Scores

Namespace	http://fncinc.com/CHQ
Diagram	
Properties	content: complex
Used by	Element DataFeedback
Model	Score*
Children	Score

Instance	<pre><Scores> <Score Name="" Value="">{0,unbounded}</Score> </Scores></pre>
----------	---

Element Score

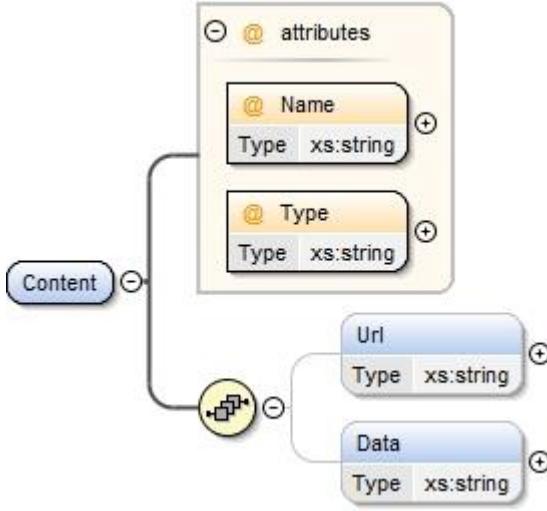
Namespace	http://fncinc.com/CHQ																		
Annotations	Use the Name to retrieve the proper score. For GAAR Score the Name='GAAR'																		
Diagram	 <pre> classDiagram class Score { @attributes @Name : xs:string @Value : xs:string } </pre>																		
Properties	content: complex																		
Used by	Element Scores																		
Attributes	<table border="1"> <thead> <tr> <th>QName</th> <th>Type</th> <th>Fixed</th> <th>Default</th> <th>Use</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>Name</td> <td>xs:string</td> <td></td> <td></td> <td>required</td> <td></td> </tr> <tr> <td>Value</td> <td>xs:string</td> <td></td> <td></td> <td>optional</td> <td></td> </tr> </tbody> </table>	QName	Type	Fixed	Default	Use	Annotation	Name	xs:string			required		Value	xs:string			optional	
QName	Type	Fixed	Default	Use	Annotation														
Name	xs:string			required															
Value	xs:string			optional															

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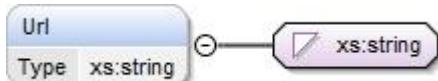
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Diagram	 <pre> classDiagram class Contents { <<0..>> Content } </pre>
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Used by	Element DataFeedback
Model	Content*
Children	Content
Instance	<pre><Contents> <Content Name="" Type="">{0,unbounded}</Content> </Contents></pre>

Element Content

Namespace	http://fncinc.com/CHQ
Annotations	Different

Diagram 																		
Properties content: complex																		
Used by Element Contents																		
Model Url{0,1} , Data{0,1}																		
Children Data, Url																		
Instance <pre><Content Name="" Type=""> <Url>{0,1}</Url> <Data>{0,1}</Data> </Content></pre>																		
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QName	Type	Fixed	Default	Use	Annotation													
Name	xs:string			required														
Type	xs:string			required														

Element Content / Url

Namespace http://fncinc.com/CHQ
Diagram 
Type xs:string
Properties content: simple minOccurs: 0

Element Content / Data

Namespace http://fncinc.com/CHQ
Diagram 
Type xs:string
Properties content: simple minOccurs: 0

Business and Processing Rules

Simple Type FeedbackType

Namespace http://fncinc.com/CHQ
Annotations Simple type for a state code (enum)

Diagram	
Type	restriction of xs:string
Facets	enumeration GAARREVIEW enumeration AIXML
Used by	Attribute DataFeedback/@FeedbackType

Sample Response XML

GAAR REVIEW ONLY

```

<?xml version="1.0" encoding="utf-8"?>
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  </Header>
  <DataFeedback DocId="20110211-0091-1" LoanNumber="8000093185" AsOf="2011-02-11T09:05:00"
    FeedbackType="GAARREVIEW" FeedbackStatusCode="True" FeedbackMessage="">
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        significantly from the subject's Age as reported in the NCD (1997) for at least 2 of the 1st 3 comps"/>
      <Firing RuleId="FNC-EXT-MKT-000-25" Severity="2" Description="County Level Market Trend: Median Price Trend
        indicates Stable market. The Appraisal Report Neighborhood Housing Trends notes: Property Values DECLINING"/>
      <Firing RuleId="FNC-EXT-VAL-000-04" Severity="2" Description="Lot size of comparable 2 reported by Appraiser
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    </Scores>
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APPRAISAL DATA ONLY

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OWNER="ON"
 /></VACANTA>ON</VACANTA></OCCUPANCY></MARKETCONDITIONS>Market
 conditions are considered favorable with values increasing and marketing time
 typically under 60 days for property priced homes. Conventional and government
 loans are the typical financing sources. Discount points paid by sellers vary
 depending on loan program selected and are normally between 1% and 2%; but in
 most cases in this area, sellers are not paying any discount
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 MOS.</MARKETINGTIME></LANDUSECHANGE>NOTLIKELY</LANDUSECHANGE></NBRH
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 PBUILDCONTROL></PUD></COMMENT></ADDITIONALFEATURES>See
 Attached Addendum</ADDITIONALFEATURES></ADVERSECONDITIONS>There were
 no visibly apparent hazardous materials located on the subject
 site.</ADVERSECONDITIONS></CONDITIONIMPROVE>Subject is an average
 quality home in overall average condition reflecting average maintenance levels.
 There is a functional floorplan with no physical or external inadequacies
 noted.</CONDITIONIMPROVE></COMMENT></LENDERCLIENT></NAME>Mortgage
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 Basis</NAME></VALUE>85</VALUE></ADDENDA></ADDENDA
 ADDENDANUM="3"></NAME>Comments on Sales
 Comparison</NAME></VALUE>Appraiser has utilized the most similar
 sales within the subjects market area and adjusted for significant differences.
 C-1 is within the subjects neighborhood, however situated on a heavily traveled
 arterial roadway. Comps 2 and 3 were taken from a slightly superior neighborhood
 north of the subject, due to the lack of more similar sales in the immediate
 neighborhood. Time adjustment were considered, due to increasing values within
 this market area. Recent MLS studies and attached newspaper article show an
 increase of 18.2%or more within the subjects market area in the past year.
 Comparables were adjusted at 1.82% per month. Comparables were the best
 available market data at the time of this appraisal and were given about equal
 weight in the final analysis. Line, net and gross adjustments may exceed
 standard appraisal guidelines, however unavoidable and made to
 market.</VALUE></ADDENDA></ADDENDA
 ADDENDANUM="4"></NAME>Additional Features</NAME></VALUE>This
 average Ranch style home features an attached one car garage; storage attached
 to the rear of the house; enclosed patio; covered porch; brick fireplace; an
 addition of a family room and .75 bathroom; tiled counter in the bathroom;
 hardwood floors throughout; and
 built-ins.</VALUE></ADDENDA></ADDITIONALPHOTOS></PHOTO
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GAAR REVIEW AND APPRAISAL DATA

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Invoice Touchpoint

:: Invoice Post from CMS

The Invoice Touch Point originates from CMS. XML post will be triggered from CMS to the Client System (ordering system), when an order moves to one of the following status: Approved – AS IS, Approved – With Condition, Declined, Cancelled – Refund Due, and Cancelled – With Fee.

Actors

CMS	This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.
Client System	System responsible for data management and originating orders

Preconditions – URL for Client system is completed in CMS

Post Conditions – Order updates sent from CMS and processed in Client System.

► Main Scenario

1. An order moves a terminal status (Approved – AS IS, Approved – With Condition, Declined, Cancelled – Refund Due, or Cancelled – With Fee)
2. Order has charges associated with it.
3. CMS sends Invoice Touchpoint to the Client System.
4. Client System receives XML and validates XML.
5. Client System sends response to communicate successful receipt of XML.

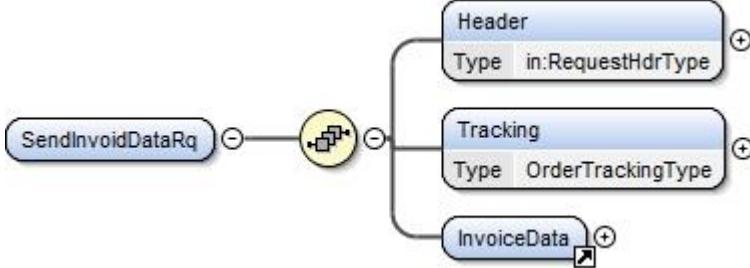
6. Client System updates order in its system with invoice information.

► **Alternate Scenarios**

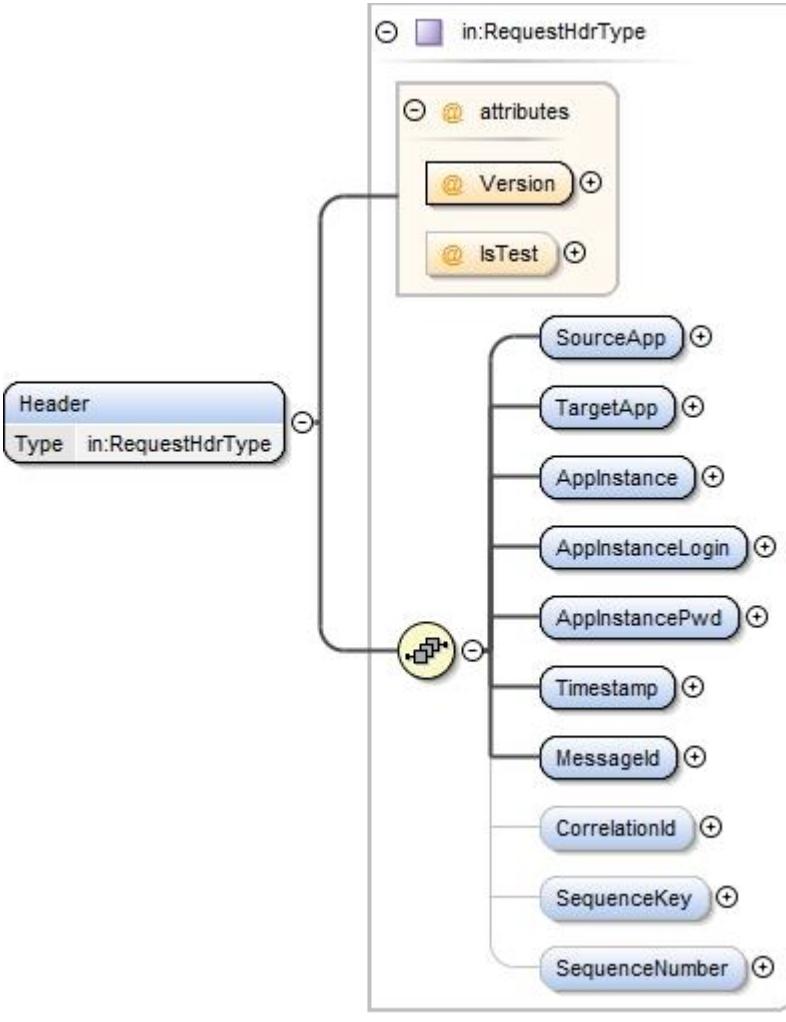
1. Can't connect to LOS – System Error
2. LOS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. LOS sends a failure acknowledgement – an application error occurred.
4. LOS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

XML Structure Overview

Element `SendInvoidDataRq`

Namespace	<code>http://fncinc.com/CHQ</code>
Annotations	Sending invoicing data
Diagram	 <pre> classDiagram class SendInvoidDataRq class Header { Type in:RequestHdrType } class Tracking { Type OrderTrackingType } class InvoiceData SendInvoidDataRq --> Header SendInvoidDataRq --> Tracking SendInvoidDataRq --> InvoiceData </pre>
Properties	<code>content: complex</code>
Model	Header , Tracking , InvoiceData
Children	Header, InvoiceData, Tracking
Instance	<pre> <SendInvoidDataRq> <Header IsTest="false" Version="1.0">{1,1}</Header> <Tracking>{1,1}</Tracking> <InvoiceData>{1,1}</InvoiceData> </SendInvoidDataRq> </pre>

Element `SendInvoidDataRq / Header`

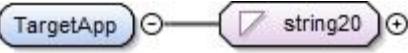
Namespace	<code>http://fncinc.com/CHQ</code>
Diagram	 <pre> classDiagram class Header { Type in:RequestHdrType } Header --> attributes attributes --> Version attributes --> IsTest Header --> SourceApp Header --> TargetApp Header --> ApplInstance Header --> ApplInstanceLogin Header --> ApplInstancePwd Header --> Timestamp Header --> MessageId Header --> CorrelationId Header --> SequenceKey Header --> SequenceNumber </pre>
Type	<code>RequestHdrType</code>
Properties	<code>content: complex</code>

Model	SourceApp , TargetApp , ApplInstance , ApplInstanceLogin , ApplInstancePwd , Timestamp , MessageId , CorrelationId{0,1} , SequenceKey{0,1} , SequenceNumber{0,1}																		
Children	ApplInstance, ApplInstanceLogin, ApplInstancePwd, CorrelationId, MessageId, SequenceKey, SequenceNumber, SourceApp, TargetApp, Timestamp																		
Instance	<pre><Header IsTest="false" Version="1.0"> <SourceApp>{1,1}</SourceApp> <TargetApp>{1,1}</TargetApp> <ApplInstance>{1,1}</ApplInstance> <ApplInstanceLogin>{1,1}</ApplInstanceLogin> <ApplInstancePwd>{1,1}</ApplInstancePwd> <Timestamp>{1,1}</Timestamp> <MessageId>{1,1}</MessageId> <CorrelationId>{0,1}</CorrelationId> <SequenceKey>{0,1}</SequenceKey> <SequenceNumber>{0,1}</SequenceNumber> </Header></pre>																		
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QName	Type	Fixed	Default	Use	Annotation														
IsTest	xs:boolean		false	optional	Not currently used; For development team to utilize in a QA-like environment.														
Version	xs:string	1.0		required	Based on schema														

Element RequestHdrType / SourceApp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The name of the system sending message
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / TargetApp

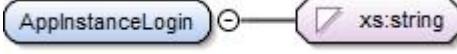
Namespace	http://fncinc.com/Integration.xsd
Annotations	The Name of the system receiving the message
Diagram	
Type	string20
Properties	content: simple
Facets	maxLength 20

Element RequestHdrType / ApplInstance

Namespace	http://fncinc.com/Integration.xsd
Annotations	An identifier obtained from FNC
Diagram	
Type	string10

Properties	content: simple
Facets	maxLength 10

Element RequestHdrType / ApplnstanceLogin

Namespace	http://fncinc.com/Integration.xsd
Annotations	User name for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / ApplnstancePwd

Namespace	http://fncinc.com/Integration.xsd
Annotations	Password for authentication (managed in CHQ)
Diagram	
Type	xs:string
Properties	content: simple

Element RequestHdrType / Timestamp

Namespace	http://fncinc.com/Integration.xsd
Annotations	The timestamp from sending system Formatting: ISO8601; sql type 126; yyyy-mm-ddThh:mi:ss.mmm (no spaces)
Diagram	
Type	xs:dateTime
Properties	content: simple

Element RequestHdrType / Messageld

Namespace	http://fncinc.com/Integration.xsd
Annotations	A unique identifier for the XML. Each unique message must have a unique Messageld.
Diagram	
Type	GUID
Properties	content: simple
Facets	pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}

Element RequestHdrType / CorrelationId

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	<p>content: simple</p> <p>minOccurs: 0</p>
Facets	<p>pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}</p>

Element RequestHdrType / SequenceKey

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	GUID
Properties	<p>content: simple</p> <p>minOccurs: 0</p>
Facets	<p>pattern [a-fA-F0-9]{8}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{4}-[a-fA-F0-9]{12}</p>

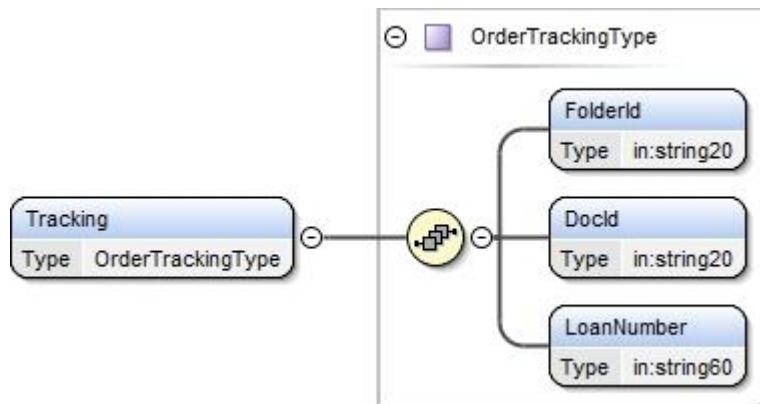
Element RequestHdrType / SequenceNumber

Namespace	http://fncinc.com/Integration.xsd
Annotations	Not currently used
Diagram	
Type	xs:int
Properties	<p>content: simple</p> <p>minOccurs: 0</p>

Tracking Node Elements

Element SendInvDataRq / Tracking

Namespace http://fncinc.com/CHQ

Diagram

Type OrderTrackingType

Properties

content:	complex
minOccurs:	1
maxOccurs:	1

Model FolderId , DocId , LoanNumber

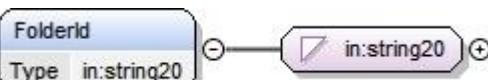
Children DocId, FolderId, LoanNumber

Instance

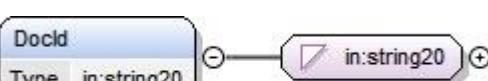
```

<Tracking>
  <FolderId>{1,1}</FolderId>
  <DocId>{1,1}</DocId>
  <LoanNumber>{1,1}</LoanNumber>
</Tracking>
  
```

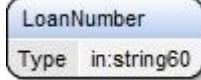
Element OrderTrackingType/FolderId

Namespace	http://fncinc.com/CHQ				
Annotations	A tracking number used in CHQ.				
Diagram	 <pre> classDiagram class FolderId { <<FolderId>> <<in:string20>> } FolderId "1" *-- "1" in:string20 </pre>				
Type	string20				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				
Facets	<table border="1"> <tr> <td>maxLength</td> <td>20</td> </tr> </table>	maxLength	20		
maxLength	20				

Element OrderTrackingType/DocId

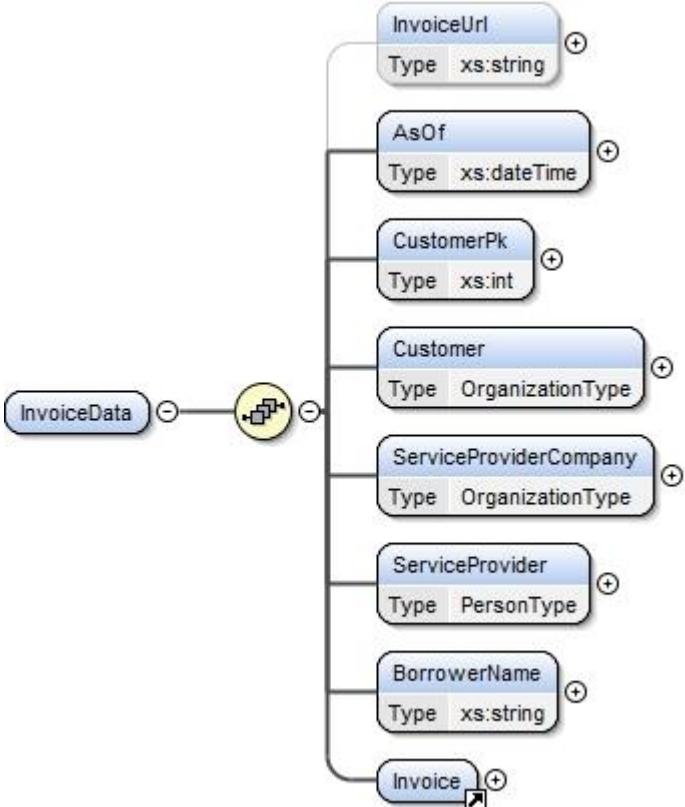
Namespace	http://fncinc.com/CHQ				
Annotations	A tracking number used in CMS. DocId is also used for later status updates.				
Diagram	 <pre> classDiagram class DocId { <<DocId>> <<in:string20>> } DocId "1" *-- "1" in:string20 </pre>				
Type	string20				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				
Facets	<table border="1"> <tr> <td>maxLength</td> <td>20</td> </tr> </table>	maxLength	20		
maxLength	20				

Element OrderTrackingType/LoanNumber
Namespace http://fncinc.com/CHQ

Annotations	Loan Number; (Echoing back the received Loan Number)
Diagram	
Type	String60
Properties	content: simple minOccurs: 1

InvoiceData Node Elements

Element [InvoiceData](#)

Namespace	http://fncinc.com/CHQ
Diagram	
Properties	content: complex
Used by	Element SendInvldDataRq
Model	InvoiceUrl{0,1} , AsOf , CustomerPk , Customer , ServiceProviderCompany , ServiceProvider , BorrowerName , Invoice
Children	AsOf, BorrowerName, Customer, CustomerPk, Invoice, InvoiceUrl, ServiceProvider, ServiceProviderCompany
Instance	<pre> <InvoiceData> <InvoiceUrl>{0,1}</InvoiceUrl> <AsOf>{1,1}</AsOf> <CustomerPk>{1,1}</CustomerPk> <Customer>{1,1}</Customer> <ServiceProviderCompany>{1,1}</ServiceProviderCompany> <ServiceProvider>{1,1}</ServiceProvider> <BorrowerName>{1,1}</BorrowerName> <Invoice>{1,1}</Invoice> </InvoiceData> </pre>

Element [InvoiceData / InvoiceUrl](#)

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

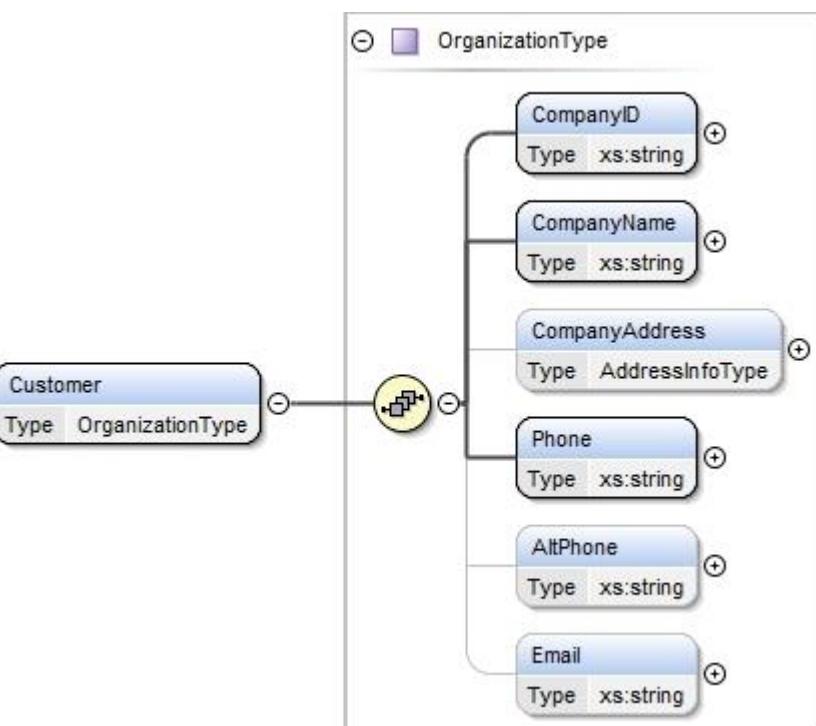
Element InvoiceData / AsOf

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:dateTime
Properties	content: simple minOccurs: 1

Element InvoiceData / CustomerPk

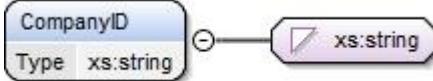
Namespace	http://fncinc.com/CHQ
Annotations	A Unique Identifier (PK) for the Customer associated with this order. The list of PKs for all customers will be provided to the client by FNC. If no customer is assigned to the order 0 will be passed
Diagram	
Type	xs:int
Properties	content: simple

Element InvoiceData / Customer

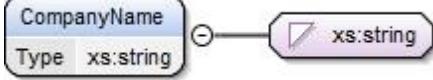
Namespace	http://fncinc.com/CHQ
Diagram	
Type	OrganizationType

Properties	content: complex
Model	CompanyID , CompanyName , CompanyAddress{0,1} , Phone , AltPhone{0,1} , Email{0,1}
Children	AltPhone, CompanyAddress, CompanyID, CompanyName, Email, Phone
Instance	<pre><Customer> <CompanyID>{1,1}</CompanyID> <CompanyName>{1,1}</CompanyName> <CompanyAddress>{0,1}</CompanyAddress> <Phone>{1,1}</Phone> <AltPhone>{0,1}</AltPhone> <Email>{0,1}</Email> </Customer></pre>

Element **OrganizationType / CompanyID**

Namespace	http://fncinc.com/CHQ
Diagram	 <pre>classDiagram class CompanyID { Type xs:string } xs:string CompanyID o--> xs:string</pre>
Type	xs:string
Properties	content: simple

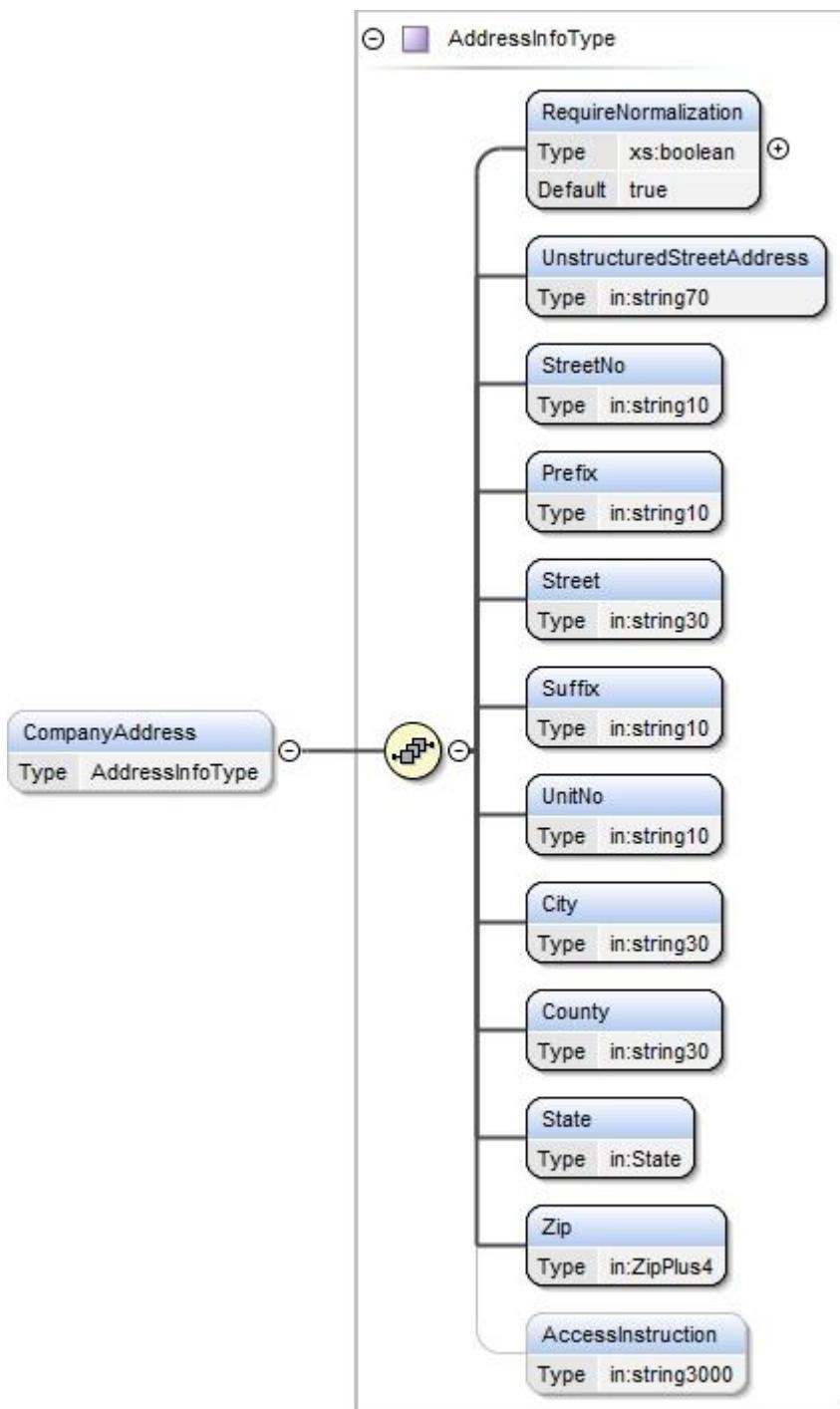
Element **OrganizationType / CompanyName**

Namespace	http://fncinc.com/CHQ
Diagram	 <pre>classDiagram class CompanyName { Type xs:string } xs:string CompanyName o--> xs:string</pre>
Type	xs:string
Properties	content: simple

Element **OrganizationType / CompanyAddress**

Namespace http://fncinc.com/CHQ

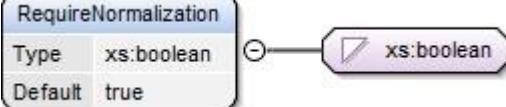
Diagram



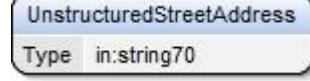
Type	AddressInfoType
Properties	<p>content: complex</p> <p>minOccurs: 0</p>
Model	RequireNormalization , UnstructuredStreetAddress , StreetNo , Prefix , Street , Suffix , UnitNo , City , County , State , Zip , AccessInstruction{0,1}
Children	AccessInstruction, City, County, Prefix, RequireNormalization, State, Street, StreetNo, Suffix, UnitNo, UnstructuredStreetAddress, Zip
Instance	<pre> <CompanyAddress> <RequireNormalization>{1,1}</RequireNormalization> <UnstructuredStreetAddress>{1,1}</UnstructuredStreetAddress> <StreetNo>{1,1}</StreetNo> <Prefix>{1,1}</Prefix> <Street>{1,1}</Street> <Suffix>{1,1}</Suffix> <UnitNo>{1,1}</UnitNo> <City>{1,1}</City> <County>{1,1}</County> <State>{1,1}</State> <Zip>{1,1}</Zip> <AccessInstruction>{0,1}</AccessInstruction> </pre>

</CompanyAddress>

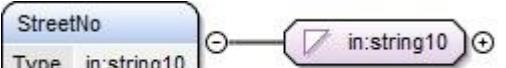
Element AddressInfoType / RequireNormalization

Namespace	http://fncinc.com/CHQ						
Annotations	Used to denote if address requires normalization. If the address has been normalized and therefore parsed into separate fields below (StreetNo, Prefix, Street and Suffix), then RequireNormalization should be 0. If the address requires normalization and will be passed in one field UnstructuredStreetAddress), then the value should be 1. If 1, CHQ will normalize the address and store in CHQ appropriately.						
Diagram	 <pre> classDiagram class RequireNormalization { <<xs:boolean>> <<true>> } <<xs:boolean>> RequireNormalization < -- xs:boolean </pre>						
Type	xs:boolean						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>default:</td> <td>true</td> </tr> </table>	content:	simple	minOccurs:	1	default:	true
content:	simple						
minOccurs:	1						
default:	true						

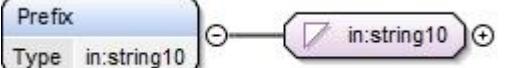
Element AddressInfoType / UnstructuredStreetAddress

Namespace	http://fncinc.com/CHQ				
Annotations	Pass Street Address in this field if normalization is required				
Diagram	 <pre> classDiagram class UnstructuredStreetAddress { <<in:string70>> } <<in:string70>> UnstructuredStreetAddress < -- in:string70 </pre>				
Type	String70				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				

Element AddressInfoType / StreetNo

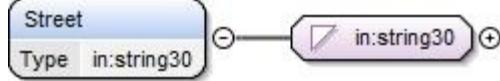
Namespace	http://fncinc.com/CHQ				
Annotations	Street No portion of Street Address				
Diagram	 <pre> classDiagram class StreetNo { <<in:string10>> } <<in:string10>> StreetNo < -- in:string10 </pre>				
Type	string10				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				
Facets	maxLength 10				

Element AddressInfoType / Prefix

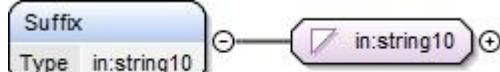
Namespace	http://fncinc.com/CHQ
Annotations	Prefix portion of Street Address
Diagram	 <pre> classDiagram class Prefix { <<in:string10>> } <<in:string10>> Prefix < -- in:string10 </pre>
Type	string10

Properties	content:	simple
	minOccurs:	1
Facets	maxLength	10

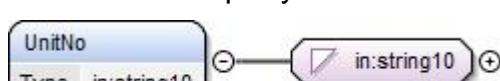
Element AddressInfoType / Street

Namespace	http://fncinc.com/CHQ
Annotations	Street Name for Street Address
Diagram	 <pre> classDiagram class Street { string30 } Street < --> string30 </pre>
Type	string30
Properties	content: simple minOccurs: 1
Facets	maxLength 30

Element AddressInfoType / Suffix

Namespace	http://fncinc.com/CHQ
Annotations	Suffix for Street Address
Diagram	 <pre> classDiagram class Suffix { string10 } Suffix < --> string10 </pre>
Type	string10
Properties	content: simple minOccurs: 1
Facets	maxLength 10

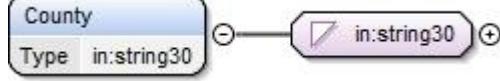
Element AddressInfoType / UnitNo

Namespace	http://fncinc.com/CHQ
Annotations	Unit No for Property
Diagram	 <pre> classDiagram class UnitNo { string10 } UnitNo < --> string10 </pre>
Type	string10
Properties	content: simple minOccurs: 1
Facets	maxLength 10

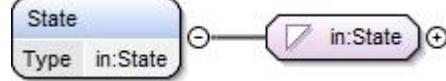
Element AddressInfoType / City

Namespace	http://fncinc.com/CHQ
Annotations	City for Property
Diagram	 <pre> classDiagram class City { string30 } City < --> string30 </pre>
Type	String30
Properties	content: simple minOccurs: 1

Element AddressInfoType / County

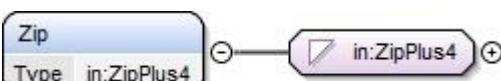
Namespace	http://fncinc.com/CHQ
Annotations	County for Property
Diagram	
Type	string30
Properties	content: simple minOccurs: 1
Facets	maxLength 30

Element AddressInfoType / State

Namespace	http://fncinc.com/CHQ
Annotations	State for Property
Diagram	
Type	State
Properties	content: simple minOccurs: 1
Facets	enumeration AL enumeration AK enumeration AZ enumeration AR enumeration CA enumeration CO enumeration CT enumeration DE enumeration DC enumeration FL enumeration GA enumeration HI enumeration ID enumeration IL enumeration IN enumeration IA enumeration KS enumeration KY enumeration LA enumeration ME enumeration MD enumeration MA enumeration MI enumeration MN enumeration MS enumeration MO enumeration MT

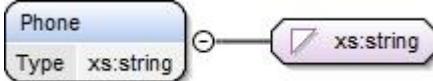
	enumeration	NE
	enumeration	NV
	enumeration	NH
	enumeration	NJ
	enumeration	NM
	enumeration	NY
	enumeration	NC
	enumeration	ND
	enumeration	OH
	enumeration	OK
	enumeration	OR
	enumeration	PA
	enumeration	RI
	enumeration	SC
	enumeration	SD
	enumeration	TN
	enumeration	TX
	enumeration	UT
	enumeration	VT
	enumeration	VA
	enumeration	WA
	enumeration	WV
	enumeration	WI
	enumeration	WY
	enumeration	AS
	enumeration	FM
	enumeration	GU
	enumeration	MH
	enumeration	MP
	enumeration	PW
	enumeration	PR
	enumeration	VI

Element AddressInfoType / Zip

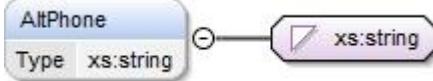
Namespace	http://fncinc.com/CHQ
Annotations	Zip Code for Property
Diagram	
Type	ZipPlus4
Properties	content: simple minOccurs: 1

Element OrganizationType / Phone

Namespace http://fncinc.com/CHQ

Diagram	
Type	xs:string
Properties	content: simple

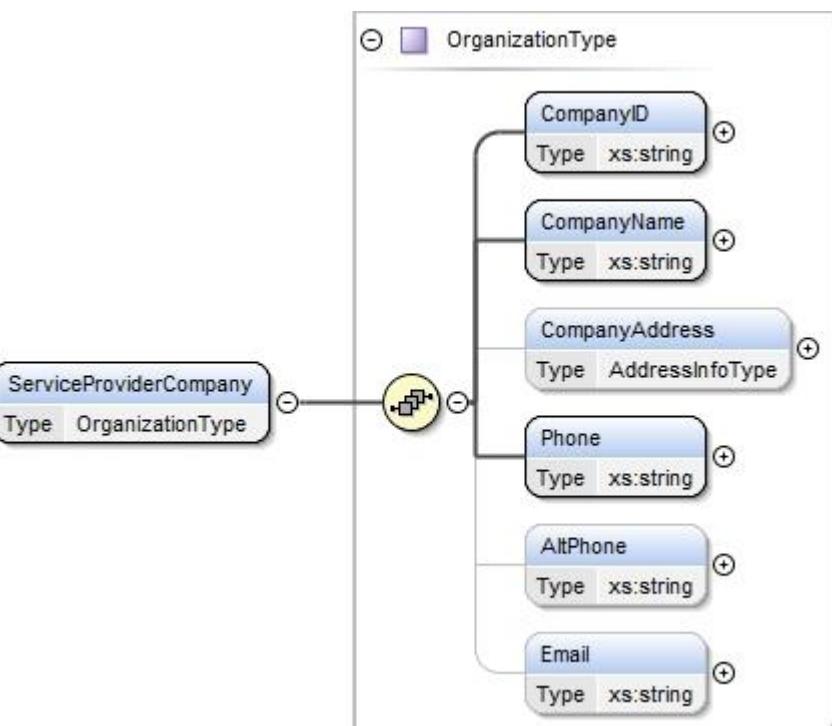
Element OrganizationType / AltPhone

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Element OrganizationType / Email

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Element InvoiceData / ServiceProviderCompany

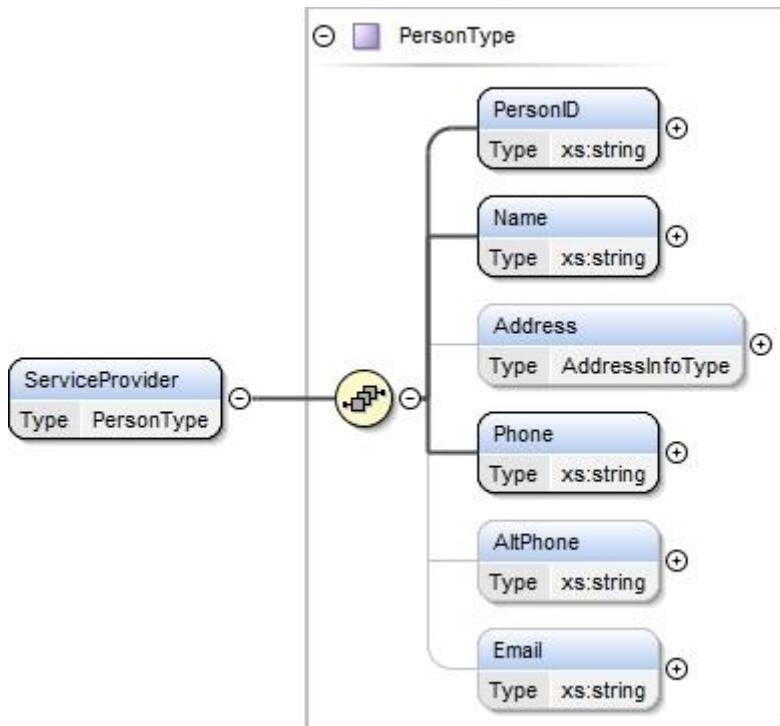
Namespace	http://fncinc.com/CHQ
Diagram	
Type	OrganizationType
Properties	content: complex
Model	CompanyID , CompanyName , CompanyAddress{0,1} , Phone , AltPhone{0,1} , Email{0,1}
Children	AltPhone, CompanyAddress, CompanyID, CompanyName, Email, Phone
Instance	<ServiceProviderCompany>

```

<CompanyID>{1,1}</CompanyID>
<CompanyName>{1,1}</CompanyName>
<CompanyAddress>{0,1}</CompanyAddress>
<Phone>{1,1}</Phone>
<AltPhone>{0,1}</AltPhone>
<Email>{0,1}</Email>
</ServiceProviderCompany>

```

Element InvoiceData / ServiceProvider
Namespace http://fncinc.com/CHQ

Diagram

Type PersonType

Properties content: complex

Model PersonID , Name , Address{0,1} , Phone , AltPhone{0,1} , Email{0,1}

Children Address, AltPhone, Email, Name, PersonID, Phone

Instance

```

<ServiceProvider>
    <PersonID>{1,1}</PersonID>
    <Name>{1,1}</Name>
    <Address>{0,1}</Address>
    <Phone>{1,1}</Phone>
    <AltPhone>{0,1}</AltPhone>
    <Email>{0,1}</Email>
</ServiceProvider>

```

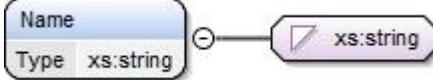
Element PersonType / PersonID
Namespace http://fncinc.com/CHQ

Diagram

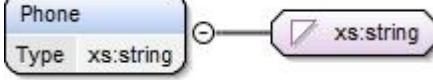
Type xs:string

Properties content: simple

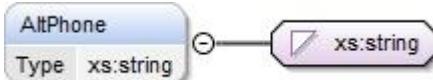
Element PersonType / Name

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple

Element PersonType / Phone

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple

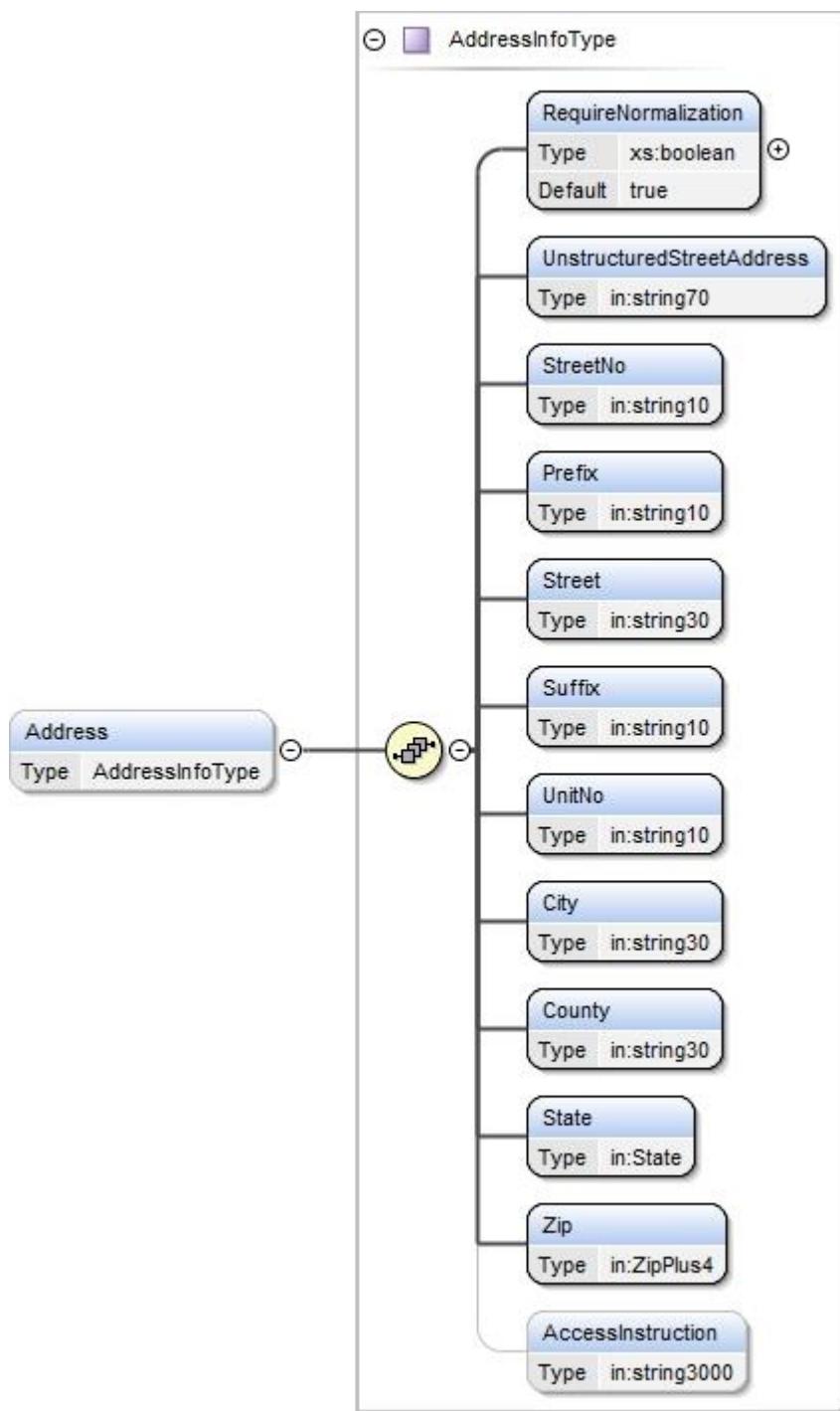
Element PersonType / AltPhone

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Element PersonType / Address

Namespace http://fncinc.com/CHQ

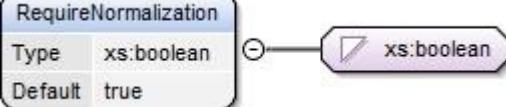
Diagram



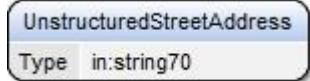
Type	AddressInfoType
Properties	<p>content: complex</p> <p>minOccurs: 0</p>
Model	RequireNormalization , UnstructuredStreetAddress , StreetNo , Prefix , Street , Suffix , UnitNo, City , County , State , Zip , AccessInstruction{0,1}
Children	AccessInstruction, City, County, Prefix, RequireNormalization, State, Street, StreetNo, Suffix, UnitNo, UnstructuredStreetAddress, Zip
Instance	<pre><Address> <RequireNormalization>{1,1}</RequireNormalization> <UnstructuredStreetAddress>{1,1}</UnstructuredStreetAddress> <StreetNo>{1,1}</StreetNo> <Prefix>{1,1}</Prefix> <Street>{1,1}</Street> <Suffix>{1,1}</Suffix> <UnitNo>{1,1}</UnitNo> <City>{1,1}</City> <County>{1,1}</County> <State>{1,1}</State> <Zip>{1,1}</Zip> <AccessInstruction>{0,1}</AccessInstruction></pre>

</Address>

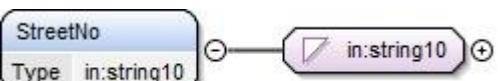
Element AddressInfoType / RequireNormalization

Namespace	http://fncinc.com/CHQ						
Annotations	Used to denote if address requires normalization. If the address has been normalized and therefore parsed into separate fields below (StreetNo, Prefix, Street and Suffix), then RequireNormalization should be 0. If the address requires normalization and will be passed in one field UnstructuredStreetAddress), then the value should be 1. If 1, CHQ will normalize the address and store in CHQ appropriately.						
Diagram	 <pre> classDiagram class RequireNormalization { <<xs:boolean>> <<true>> } </pre>						
Type	xs:boolean						
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> <tr> <td>default:</td> <td>true</td> </tr> </table>	content:	simple	minOccurs:	1	default:	true
content:	simple						
minOccurs:	1						
default:	true						

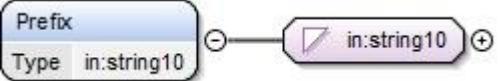
Element AddressInfoType / UnstructuredStreetAddress

Namespace	http://fncinc.com/CHQ				
Annotations	Pass Street Address in this field if normalization is required				
Diagram	 <pre> classDiagram class UnstructuredStreetAddress { <<in:string70>> } </pre>				
Type	String70				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				

Element AddressInfoType / StreetNo

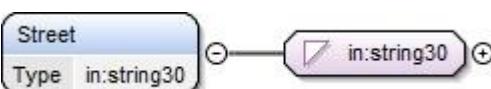
Namespace	http://fncinc.com/CHQ				
Annotations	Street No portion of Street Address				
Diagram	 <pre> classDiagram class StreetNo { <<in:string10>> } </pre>				
Type	string10				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				
Facets	<table border="1"> <tr> <td>maxLength</td> <td>10</td> </tr> </table>	maxLength	10		
maxLength	10				

Element AddressInfoType / Prefix

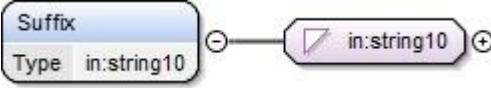
Namespace	http://fncinc.com/CHQ				
Annotations	Prefix portion of Street Address				
Diagram	 <pre> classDiagram class Prefix { <<in:string10>> } </pre>				
Type	string10				
Properties	<table border="1"> <tr> <td>content:</td> <td>simple</td> </tr> <tr> <td>minOccurs:</td> <td>1</td> </tr> </table>	content:	simple	minOccurs:	1
content:	simple				
minOccurs:	1				

Facets	maxLength 10
--------	--------------

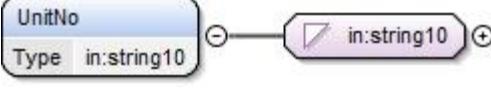
Element AddressInfoType / Street

Namespace	http://fncinc.com/CHQ
Annotations	Street Name for Street Address
Diagram	
Type	string30
Properties	content: simple minOccurs: 1
Facets	maxLength 30

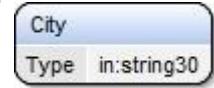
Element AddressInfoType / Suffix

Namespace	http://fncinc.com/CHQ
Annotations	Suffix for Street Address
Diagram	
Type	string10
Properties	content: simple minOccurs: 1
Facets	maxLength 10

Element AddressInfoType / UnitNo

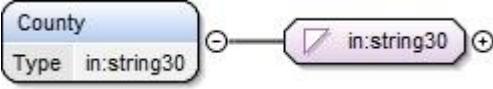
Namespace	http://fncinc.com/CHQ
Annotations	Unit No for Property
Diagram	
Type	string10
Properties	content: simple minOccurs: 1
Facets	maxLength 10

Element AddressInfoType / City

Namespace	http://fncinc.com/CHQ
Annotations	City for Property
Diagram	
Type	String30
Properties	content: simple minOccurs: 1

Element AddressInfoType / County

Namespace	http://fncinc.com/CHQ
Annotations	County for Property

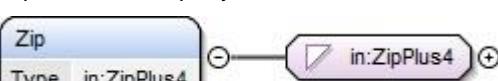
Diagram	
Type	string30
Properties	content: simple minOccurs: 1
Facets	maxLength 30

Element AddressInfoType / State

Namespace	http://fncinc.com/CHQ
Annotations	State for Property
Diagram	
Type	State
Properties	content: simple minOccurs: 1
Facets	enumeration AL enumeration AK enumeration AZ enumeration AR enumeration CA enumeration CO enumeration CT enumeration DE enumeration DC enumeration FL enumeration GA enumeration HI enumeration ID enumeration IL enumeration IN enumeration IA enumeration KS enumeration KY enumeration LA enumeration ME enumeration MD enumeration MA enumeration MI enumeration MN enumeration MS enumeration MO enumeration MT enumeration NE enumeration NV enumeration NH enumeration NJ enumeration NM

enumeration	NY
enumeration	NC
enumeration	ND
enumeration	OH
enumeration	OK
enumeration	OR
enumeration	PA
enumeration	RI
enumeration	SC
enumeration	SD
enumeration	TN
enumeration	TX
enumeration	UT
enumeration	VT
enumeration	VA
enumeration	WA
enumeration	WV
enumeration	WI
enumeration	WY
enumeration	AS
enumeration	FM
enumeration	GU
enumeration	MH
enumeration	MP
enumeration	PW
enumeration	PR
enumeration	VI

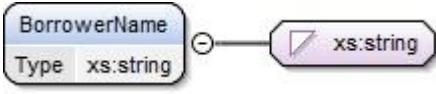
Element AddressInfoType / Zip

Namespace	http://fncinc.com/CHQ
Annotations	Zip Code for Property
Diagram	
Type	ZipPlus4
Properties	content: simple minOccurs: 1

Element PersonType / Email

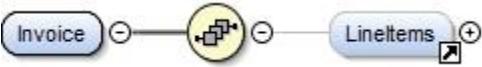
Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Element InvoiceData / BorrowerName

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:string
Properties	content: simple

Invoice Node Elements

Element [Invoice](#)

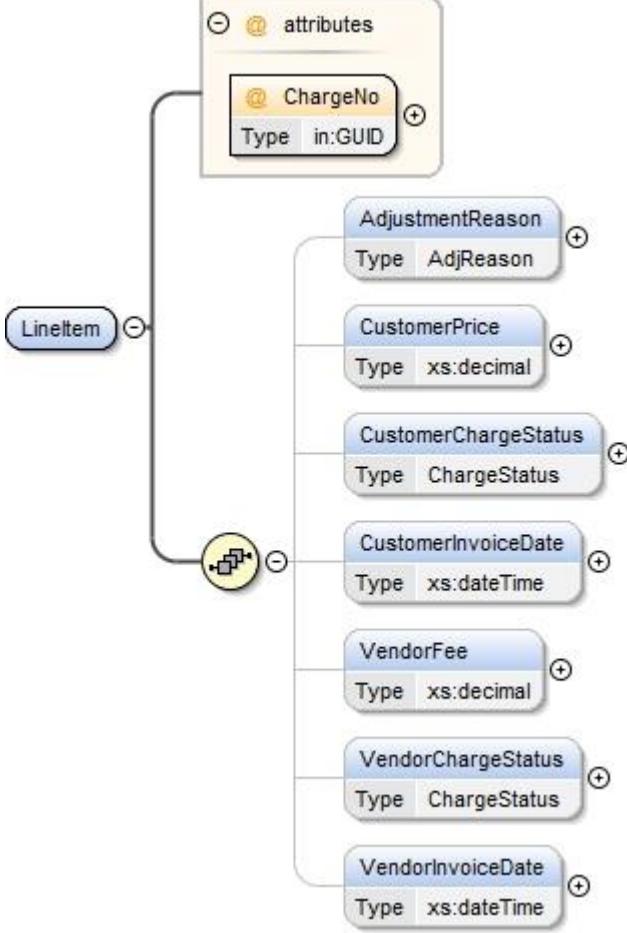
Namespace	http://fncinc.com/CHQ
Diagram	
Properties	content: complex
Used by	Element InvoiceData
Model	Lineltems{0,1}
Children	Lineltems
Instance	<Invoice> <Lineltems>{0,1}</Lineltems> </Invoice>

Element [Lineltems](#)

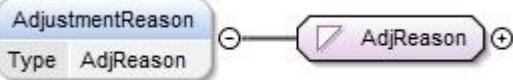
Namespace	http://fncinc.com/CHQ
Diagram	
Properties	content: complex
Used by	Element Invoice
Model	Lineltem*
Children	Lineltem
Instance	<Lineltems> <Lineltem ChargeNo="">{0,unbounded}</Lineltem> </Lineltems>

Element [Lineltem](#)

Namespace	http://fncinc.com/CHQ
Annotations	

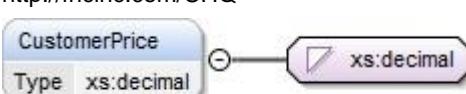
Diagram													
Properties	content: complex												
Used by	Element Linelitems												
Model	AdjustmentReason{0,1} , CustomerPrice{0,1} , CustomerChargeStatus{0,1} , CustomerInvoiceDate{0,1} , VendorFee{0,1} , VendorChargeStatus{0,1} , VendorInvoiceDate{0,1}												
Children	AdjustmentReason, CustomerChargeStatus, CustomerInvoiceDate, CustomerPrice, VendorChargeStatus, VendorFee, VendorInvoiceDate												
Instance	<pre><LineItem ChargeNo=""> <AdjustmentReason>{0,1}</AdjustmentReason> <CustomerPrice>{0,1}</CustomerPrice> <CustomerChargeStatus>{0,1}</CustomerChargeStatus> <CustomerInvoiceDate>{0,1}</CustomerInvoiceDate> <VendorFee>{0,1}</VendorFee> <VendorChargeStatus>{0,1}</VendorChargeStatus> <VendorInvoiceDate>{0,1}</VendorInvoiceDate> </LineItem></pre>												
Attributes	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>QName</th><th>Type</th><th>Fixed</th><th>Default</th><th>Use</th><th>Annotation</th></tr> </thead> <tbody> <tr> <td>ChargeNo</td><td>GUID</td><td></td><td></td><td>required</td><td></td></tr> </tbody> </table>	QName	Type	Fixed	Default	Use	Annotation	ChargeNo	GUID			required	
QName	Type	Fixed	Default	Use	Annotation								
ChargeNo	GUID			required									

Element **LineItem / AdjustmentReason**

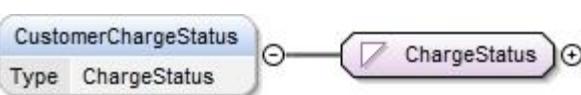
Namespace	http://fncinc.com/CHQ
Diagram	
Type	AdjReason
Properties	content: simple minOccurs: 0
Facets	enumeration A enumeration AC

enumeration	DF
enumeration	ED
enumeration	EF
enumeration	EP
enumeration	MC
enumeration	NA
enumeration	NewA
enumeration	OTH
enumeration	RA
enumeration	RUSH
enumeration	TF

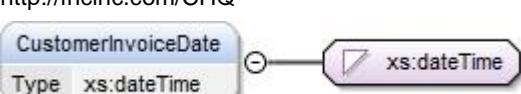
Element [LineItem / CustomerPrice](#)

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:decimal
Properties	content: simple minOccurs: 0

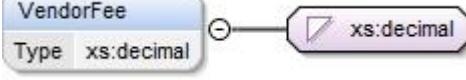
Element [LineItem / CustomerChargeStatus](#)

Namespace	http://fncinc.com/CHQ
Annotations	I Invoiced P Pending PD Paid
Diagram	
Type	ChargeStatus
Properties	content: simple minOccurs: 0
Facets	enumeration I enumeration P enumeration PD

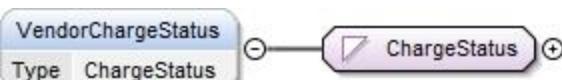
Element [LineItem / CustomerInvoiceDate](#)

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:dateTime
Properties	content: simple minOccurs: 0

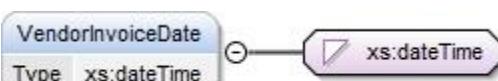
Element [LineItem / VendorFee](#)

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:decimal
Properties	content: simple minOccurs: 0

Element LinelItem / VendorChargeStatus

Namespace	http://fncinc.com/CHQ
Diagram	
Type	ChargeStatus
Properties	content: simple minOccurs: 0
Facets	enumeration I enumeration P enumeration PD

Element LinelItem / VendorInvoiceDate

Namespace	http://fncinc.com/CHQ
Diagram	
Type	xs:dateTime
Properties	content: simple minOccurs: 0

Business and Processing Rules

Strip Spaces and Special Characters from Phone and FAX Numbers

Only the 10 digits of the phone and fax number should be sent in the XML. Any spaces or special characters used for formatting should be stripped from the value before being used in the XML request.

Map Client System Value to XML Enumeration

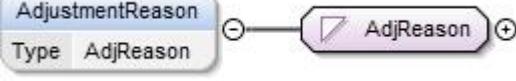
The following tables provide valid values to be passed for the denoted fields. Each table contains two columns (ID and Description). The ID should be passed in the CreateOrder XML.

Addresses

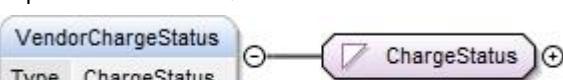
The addresses in the Touchpoint will be unstructured address that will require normalization. LOS system needs to phrase the address and stored is appropriately.

Element LinelItem / AdjustmentReason

Namespace	http://fncinc.com/CHQ																				
Annotations	<table> <tr> <td>A</td> <td>Addendum</td> </tr> <tr> <td>AC</td> <td>Atypical Cancellation</td> </tr> <tr> <td>DF</td> <td>Distance Fee</td> </tr> <tr> <td>ED</td> <td>Employee Discount</td> </tr> <tr> <td>EF</td> <td>Exception Fee</td> </tr> <tr> <td>EP</td> <td>Exception Price</td> </tr> <tr> <td>MC</td> <td>Management Concession</td> </tr> <tr> <td>NA</td> <td>New Assignment/Transfer</td> </tr> <tr> <td>NewA</td> <td>New Assignment</td> </tr> <tr> <td>OTH</td> <td>Other</td> </tr> </table>	A	Addendum	AC	Atypical Cancellation	DF	Distance Fee	ED	Employee Discount	EF	Exception Fee	EP	Exception Price	MC	Management Concession	NA	New Assignment/Transfer	NewA	New Assignment	OTH	Other
A	Addendum																				
AC	Atypical Cancellation																				
DF	Distance Fee																				
ED	Employee Discount																				
EF	Exception Fee																				
EP	Exception Price																				
MC	Management Concession																				
NA	New Assignment/Transfer																				
NewA	New Assignment																				
OTH	Other																				

	RA Reassignment RUSH Rush Fee TF Trip Fee/Research Fee
Diagram	
Type	AdjReason
Properties	content: simple minOccurs: 0
Facets	enumeration A enumeration AC enumeration DF enumeration ED enumeration EF enumeration EP enumeration MC enumeration NA enumeration NewA enumeration OTH enumeration RA enumeration RUSH enumeration TF

Element LineItem / VendorChargeStatus

Namespace	http://fncinc.com/CHQ
Diagram	
Type	ChargeStatus
Properties	content: simple minOccurs: 0
Facets	enumeration I enumeration P enumeration PD

Sample Post XML

```

<?xml version="1.0" encoding="utf-8"?>
<SendInvoidDataRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
<Header Version="1.0">
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">CHQ</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">LOS</TargetApp>
    <ApplInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</ApplInstance>
    <ApplInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</ApplInstanceLogin>
    <ApplInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123</ApplInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2011-06-16T16:02:08.9712974-05:00</Timestamp>
    <MessageId xmlns="http://fncinc.com/Integration.xsd">f332efd2-85a6-400f-8277-a64afc8064c4</MessageId>
</Header>
<Tracking>
    <FolderId>20110607-0026</FolderId>
    <DocId>20110607-0026-1</DocId>
    <LoanNumber>0607201105</LoanNumber>
</Tracking>
<InvoiceData>
    <InvoiceUrl>https://collateralhq.fncinc.com/default.aspx?pageId=streamfile&fileId=D194AD88-290A-4F67-B3E0-
80742C5F8A43</InvoiceUrl>
    <AsOf>2011-06-16T16:02:08.986923-05:00</AsOf>

```

```

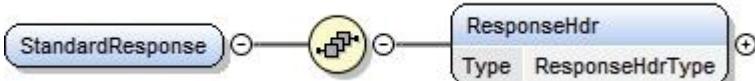
<CustomerPk>273</CustomerPk>
<Customer>
    <CompanyID>CD-1001</CompanyID>
    <CompanyName>Test Customer</CompanyName>
    <CompanyAddress>
        <RequireNormalization>true</RequireNormalization>
        <UnstructuredStreetAddress>1214 Office Park Dr.</UnstructuredStreetAddress>
        <City>OXFORD</City>
        <County/>
        <State>MS</State>
        <Zip>38655</Zip>
    </CompanyAddress>
    <Phone>444-444-4444</Phone>
    <Email/>
</Customer>
<ServiceProviderCompany>
    <CompanyID>FNC Inc</CompanyID>
    <CompanyName>123 FNC Inc</CompanyName>
    <CompanyAddress>
        <RequireNormalization>true</RequireNormalization>
        <UnstructuredStreetAddress>1214 Office Park Drive</UnstructuredStreetAddress>
        <City>Oxford</City>
        <County/>
        <State>MS</State>
        <Zip>38655</Zip>
    </CompanyAddress>
    <Phone>6622810707</Phone>
    <AltPhone></AltPhone>
    <Email>testco@test.com</Email>
</ServiceProviderCompany>
<ServiceProvider>
    <PersonID>376</PersonID>
    <Name>Test AP_Appraiser</Name>
    <Address>
        <RequireNormalization>true</RequireNormalization>
        <UnstructuredStreetAddress>1214 Office Park Drive</UnstructuredStreetAddress>
        <City>Oxford</City>
        <County/>
        <State>MS</State>
        <Zip>38655</Zip>
    </Address>
    <Phone>222-222-2222</Phone>
    <AltPhone></AltPhone>
    <Email>noreply@fncinc.com</Email>
</ServiceProvider>
<BorrowerName>dfdf dfadf</BorrowerName>
<Invoice>
    <LineItems>
        <LineItem ChargeNo="7a69d6d2-6894-46a1-b032-79b169c838e3">
            <AdjustmentReason>NewA</AdjustmentReason>
            <CustomerPrice>430.0000</CustomerPrice>
            <CustomerChargeStatus>P</CustomerChargeStatus>
            <CustomerInvoiceDate>1899-12-30T00:00:00</CustomerInvoiceDate>
            <VendorFee>400.0000</VendorFee>
            <VendorChargeStatus>P</VendorChargeStatus>
            <VendorInvoiceDate>1899-12-30T00:00:00</VendorInvoiceDate>
        </LineItem>
        <LineItem ChargeNo="06754f97-b4f8-4378-879f-5232fa431607">
            <AdjustmentReason>DF</AdjustmentReason>
            <CustomerPrice>50.0000</CustomerPrice>
            <CustomerChargeStatus>PD</CustomerChargeStatus>
            <CustomerInvoiceDate>1899-12-30T00:00:00</CustomerInvoiceDate>
            <VendorFee>25.0000</VendorFee>
            <VendorChargeStatus>PD</VendorChargeStatus>
            <VendorInvoiceDate>1899-12-30T00:00:00</VendorInvoiceDate>
        </LineItem>
        <LineItem ChargeNo="baa2248a-1d89-4195-9959-9f52c7be4852">
            <AdjustmentReason>RUSH</AdjustmentReason>
            <CustomerPrice>10.0000</CustomerPrice>
            <CustomerChargeStatus>I</CustomerChargeStatus>
            <CustomerInvoiceDate>2011-06-16T00:00:00</CustomerInvoiceDate>
            <VendorFee>50.0000</VendorFee>
            <VendorChargeStatus>I</VendorChargeStatus>
            <VendorInvoiceDate>2011-06-16T00:00:00</VendorInvoiceDate>
        </LineItem>
    </LineItems>
</Invoice>
<InvoiceData>
</SendInvvoidDataRq>

```

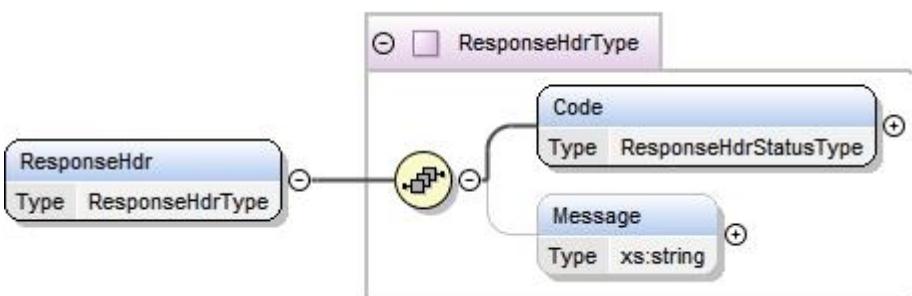
Standard LOS Response

CMS expects a response from the LOS. The response may also return a processing error and message.

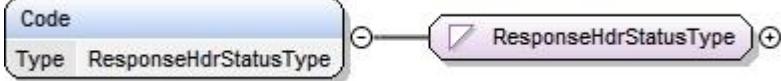
Element StandardResponse

Namespace	http://fncinc.com/Integration.xsd
Annotations	The element sent for an simple response
Diagram	
Properties	content: complex
Model	ResponseHdr
Children	ResponseHdr
Instance	<pre><StandardResponse> <ResponseHdr>{1,1}</ResponseHdr> </StandardResponse></pre>

Element StandardResponse/ResponseHdr

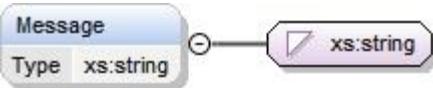
Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	ResponseHdrType
Properties	content: complex
Model	Code , Message{0,1}
Children	Code, Message
Instance	<pre><ResponseHdr> <Code>{1,1}</Code> <Message>{0,1}</Message> </ResponseHdr></pre>

Element ResponseHdrType/Code

Namespace	http://fncinc.com/Integration.xsd						
Diagram							
Type	ResponseHdrStatusType						
Properties	content: simple						
Facets	<table border="1"> <tr> <td>enumeration</td> <td>OK</td> </tr> <tr> <td>enumeration</td> <td>ApplicationError</td> </tr> <tr> <td>enumeration</td> <td>SystemError</td> </tr> </table>	enumeration	OK	enumeration	ApplicationError	enumeration	SystemError
enumeration	OK						
enumeration	ApplicationError						
enumeration	SystemError						

enumeration ReferentialIntegrityError

Element ResponseHdrType/Message

Namespace	http://fncinc.com/Integration.xsd
Diagram	
Type	xs:string
Properties	content: simple minOccurs: 0

Sample XML

A simplified version of Response XML is below:

```
<StandardResponse xsi:schemaLocation="http://fncinc.com/CHQ CMS.xsd"
  xmlns:in="http://fncinc.com/Integration.xsd" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
  instance">
  <ResponseHdr>
    <Code>OK</Code>
    <Message/>
  </ResponseHdr>
</StandardResponse>
```

Charge Information Touchpoint

:: Charge Information Request

The Charge Information Request originates from the LOS. The response will give a line item break down of the current charges for the order. They correspond to the Charge Out tab in the CMS UI.

Actors

CMS This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.

Client System System responsible for data management and originating orders

Preconditions – Credentials entered into CMS interface setup

Post Conditions – Charge Information Request sent from LOS and processed in CMS

► Main Scenario

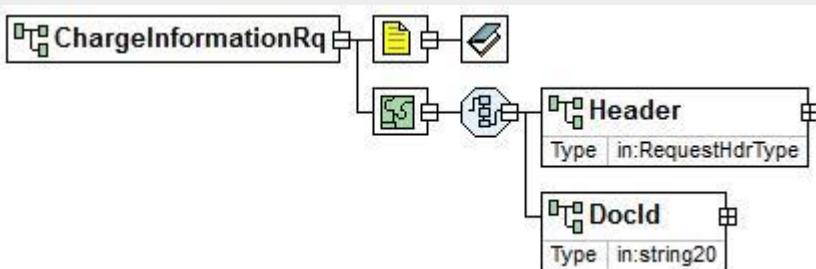
1. Order has charges associated with it.
2. LOS sends Charge Information Request to CMS.
3. CMS receives and validates XML.
4. CMS sends response to communicate successful receipt of XML along with the Charge Information.

► Alternate Scenarios

1. Can't connect to CMS – System Error

2. CMS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. CMS sends a failure acknowledgement – an application error occurred.
4. CMS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

Element: ChargeInformationRq

Name	ChargeInformationRq
Type	Locally-defined complex type
Nillable	no
Abstract	no
Documentation	Touchpoint to request information in the Charge Out tab from LOS
Diagram	 <pre> classDiagram class ChargeInformationRq { <<Locally-defined complex type>> } class RequestHdrType { <<in:RequestHdrType>> } class Header { <<Type in:RequestHdrType>> } class DocId { <<Type in:string20>> } ChargeInformationRq < -- RequestHdrType ChargeInformationRq --> Header : in:RequestHdrType ChargeInformationRq --> DocId : in:string20 </pre>

XML Instance Representation

```

<ChargeInformationRq>
  <Header>in:RequestHdrType</Header>[1,1]
  <DocId>in:string20</DocId>[1,1]
</ChargeInformationRq>
  
```

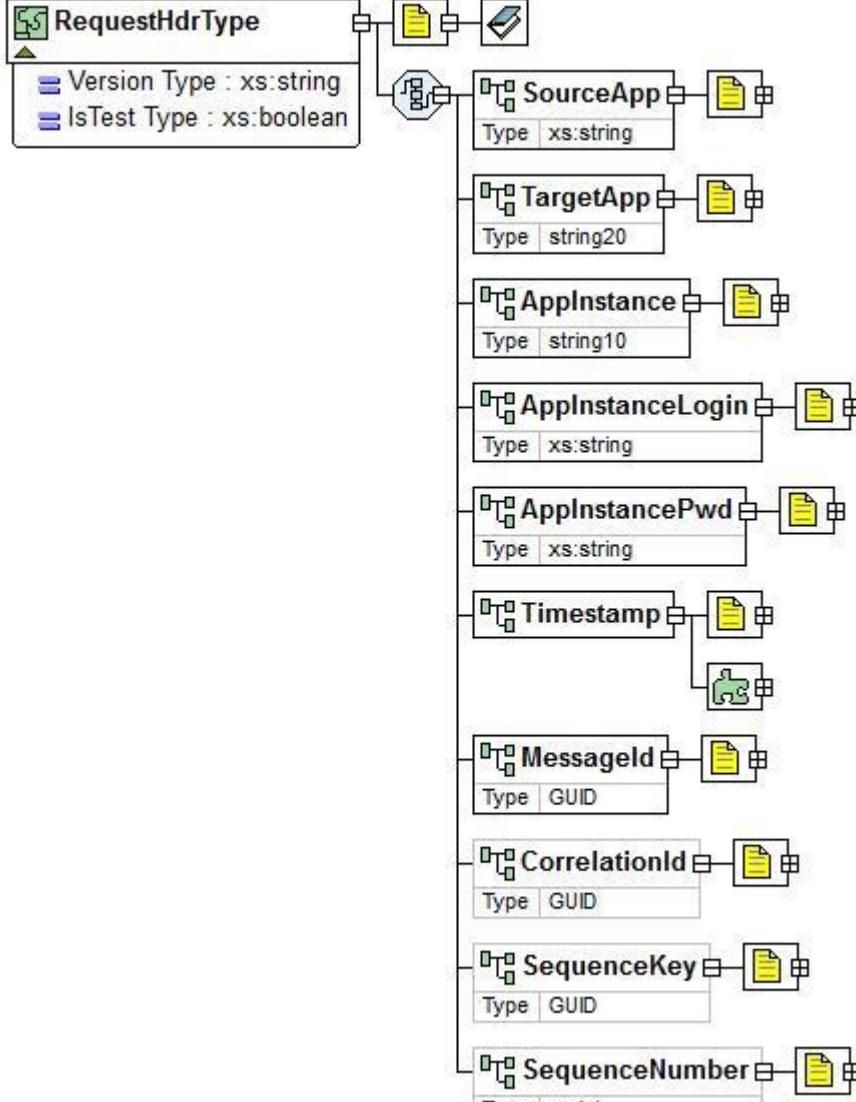
Schema Component Representation

```

<xs:element name="ChargeInformationRq">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="Header" type="in:RequestHdrType"/>
      <xs:element name="DocId" type="in:string20" minOccurs="1"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
  
```

Complex Type: RequestHdrType

Super-types:	None
Sub-types:	None
Name	RequestHdrType
Abstract	no

Documentation	Standard request header
Diagram	 <pre> classDiagram class RequestHdrType { <<Object>> Version Type : xs:string IsTest Type : xs:boolean } class SourceApp { Type xs:string } class TargetApp { Type string20 } class ApplInstance { Type string10 } class ApplInstanceLogin { Type xs:string } class ApplInstancePwd { Type xs:string } class Timestamp { Type xs:dateTime } class MessageId { Type GUID } class CorrelationId { Type GUID } class SequenceKey { Type GUID } class SequenceNumber { Type xs:int } RequestHdrType < -- Object RequestHdrType --> SourceApp : RequestHdrType --> TargetApp : RequestHdrType --> ApplInstance : RequestHdrType --> ApplInstanceLogin : RequestHdrType --> ApplInstancePwd : RequestHdrType --> Timestamp : RequestHdrType --> MessageId : RequestHdrType --> CorrelationId : RequestHdrType --> SequenceKey : RequestHdrType --> SequenceNumber : </pre>

XML Instance Representation

```

<...
  Version="1.0" IsTest="xs:boolean">
  <SourceApp> xs:string </SourceApp> [1,1]
  <TargetApp> string20 </TargetApp> [1,1]
  <ApplInstance> string10 </ApplInstance> [1,1]
  <ApplInstanceLogin> xs:string </ApplInstanceLogin> [1,1]
  <ApplInstancePwd> xs:string </ApplInstancePwd> [1,1]
  <Timestamp> xs:dateTime </Timestamp> [1,1]
  <MessageId> GUID </MessageId> [1,1]
  <CorrelationId> GUID </CorrelationId> [0,1]
  <SequenceKey> GUID </SequenceKey> [0,1]
  <SequenceNumber> xs:int </SequenceNumber> [0,1]
</...>
  
```

Schema Component Representation

```

<xs:complexType name="RequestHdrType">
  <xs:sequence>
    <xs:element name="SourceApp" type="xs:string"/>
    <xs:element name="TargetApp" type="string20"/>
    <xs:element name="ApplInstance" type="string10"/>
    <xs:element name="ApplInstanceLogin" type="xs:string"/>
    <xs:element name="ApplInstancePwd" type="xs:string"/>
    <xs:element name="Timestamp">
      <xs:simpleType>
        <xs:restriction base="xs:dateTime"/>
      </xs:simpleType>
    </xs:element>
    <xs:element name="MessageId" type="GUID"/>
    <xs:element name="CorrelationId" type="GUID" minOccurs="0"/>
    <xs:element name="SequenceKey" type="GUID" minOccurs="0"/>
    <xs:element name="SequenceNumber" type="xs:int" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="Version" type="xs:string" fixed="1.0" use="optional"/>

```

```

<xs:attribute name="IsTest" type="xs:boolean" default="false" use="optional"/>
</xs:complexType>

```

Sample Post XML

```

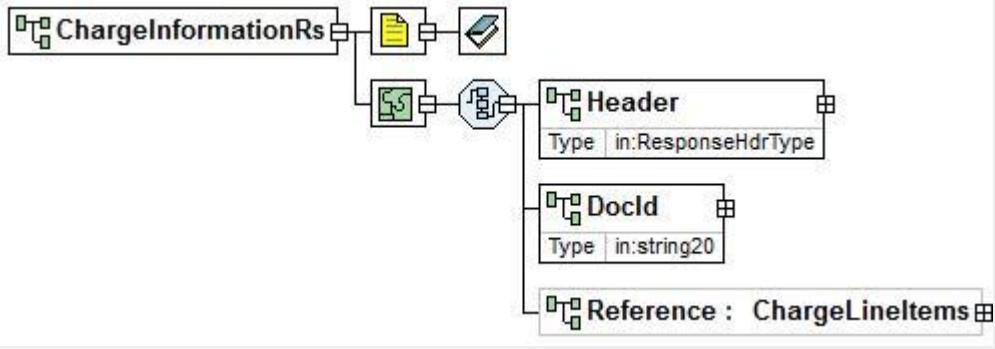
<?xml version="1.0"?>
<ChargeInformationRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ"
xsi:schemaLocation="http://fncinc.com/CHQ">
<Header>
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">LOS</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">CHQ</TargetApp>
    <AppInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</AppInstance>
    <AppInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</AppInstanceLogin>
    <AppInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123!</AppInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2014-05-13T10:50:59.430</Timestamp>
    <MessageId xmlns="http://fncinc.com/Integration.xsd">adca50d4-8b85-4223-1111-82a0213b5125</MessageId>
</Header>
<DocId>20140805-0149-1</DocId>
</ChargeInformationRq>

```

:: Charge Information Response

LOS expects a response from the CMS. The response may also return a processing error and message.

Element: ChargeInformationRs

Name	ChargeInformationRs
Type	Locally-defined complex type
Nillable	no
Abstract	no
Documentation	Response for the ChargeInformationRq will contain the line item information for each charge.
Diagram	 <pre> classDiagram class ChargeInformationRs { <<Complex Type>> Header DocId Reference : ChargeLineItems } class Header { <<Type>> ResponseHdrType } class DocId { <<Type>> string20 } class ChargeLineItems </pre>

XML Instance Representation

```

<ChargeInformationRs>
    <Header>in:ResponseHdrType</Header>[1,1]
    <DocId>in:string20</DocId>[1,1]
    <ChargeLineItems>...</ChargeLineItems>[0,1]
</ChargeInformationRs>

```

Schema Component Representation

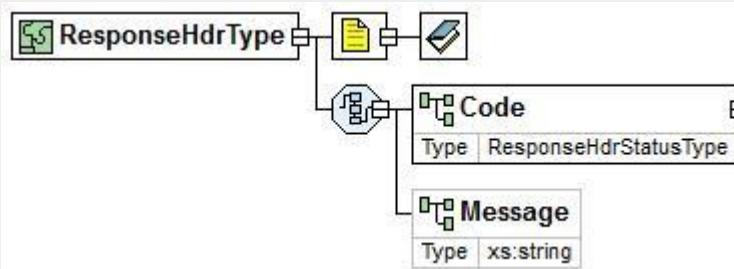
```

<xs:element name="ChargeInformationRs">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="Header" type="in:ResponseHdrType"/>
            <xs:element name="DocId" type="in:string20" minOccurs="1"/>
            <xs:element ref="ChargeLineItems" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

</xs:complexType>
 </xs:element>

Complex Type: ResponseHdrType

Super-types:	None
Sub-types:	None
Name	ResponseHdrType
Abstract	no
Documentation	Standard response header
Diagram	 <pre> classDiagram class ResponseHdrType { Code Message } class Code { type ResponseHdrStatusType } class Message { type xs:string } ResponseHdrType "1..1" --> "1..1" Code ResponseHdrType "0..1" --> "1..1" Message </pre>

XML Instance Representation

```

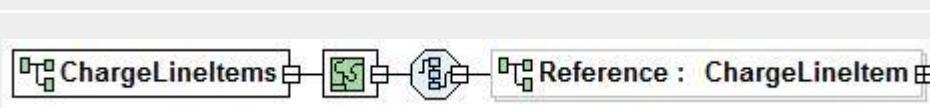
<...>
<Code>ResponseHdrStatusType</Code> [1,1]
<Message>xs:string</Message> [0,1]
</...>
  
```

Schema Component Representation

```

<xs:complexType name="ResponseHdrType">
  <xs:sequence>
    <xs:element name="Code" type="ResponseHdrStatusType"/>
    <xs:element name="Message" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
  
```

Element: ChargeLineItems

Name	ChargeLineItems
Type	Locally-defined complex type
Nillable	no
Abstract	no
Diagram	 <pre> classDiagram class ChargeLineItems { "0..*" --> "1..1" Reference : ChargeLineItem } </pre>

XML Instance Representation

```

<ChargeLineItems>
  <ChargeLineItem>...</ChargeLineItem>[0,*]
</ChargeLineItems>
  
```

Schema Component Representation

```

<xs:element name="ChargeLineItems">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="ChargeLineItem" minOccurs="0" maxOccurs="unbounded"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
  
```

```

</xs:sequence>
</xs:complexType>
</xs:element>

```

Element: ChargeLineItem

Name	ChargeLineItem
Type	Locally-defined complex type
Nillable	no
Abstract	no
Documentation	The individual charges and additional information for the specified DocId.
Diagram	 <pre> classDiagram class ChargeLineItem { <<Complex Type>> } class CustomerAdjustmentReason { <<xs:string>> } class CustomerPrice { <<xs:decimal>> } class CustomerChargeStatus { <<ChargeStatus>> } class CustomerPaidDate { <<xs:dateTime>> } class CustomerInvoiceDate { <<xs:dateTime>> } class VendorFee { <<xs:decimal>> } class VendorChargeStatus { <<ChargeStatus>> } class VendorAdjustmentReason { <<xs:string>> } class VendorPaidDate { <<xs:dateTime>> } class VendorInvoiceDate { <<xs:dateTime>> } class InvoiceNumber { <<in:string20>> } class ChargeNo { <<in:GUID>> } ChargeLineItem "1" --> "1" CustomerAdjustmentReason ChargeLineItem "1" --> "1" CustomerPrice ChargeLineItem "1" --> "1" CustomerChargeStatus ChargeLineItem "1" --> "1" CustomerPaidDate ChargeLineItem "1" --> "1" CustomerInvoiceDate ChargeLineItem "1" --> "1" VendorFee ChargeLineItem "1" --> "1" VendorChargeStatus ChargeLineItem "1" --> "1" VendorAdjustmentReason ChargeLineItem "1" --> "1" VendorPaidDate ChargeLineItem "1" --> "1" VendorInvoiceDate ChargeLineItem "1" --> "1" InvoiceNumber ChargeLineItem "1" --> "1" ChargeNo </pre>

XML Instance Representation

```

<ChargeLineItem>
  <CustomerAdjustmentReason>xs:string</CustomerAdjustmentReason>[0,1]
  <CustomerPrice>xs:decimal</CustomerPrice>[0,1]
  <CustomerChargeStatus>ChargeStatus</CustomerChargeStatus>[0,1]
  <CustomerPaidDate>xs:dateTime</CustomerPaidDate>[0,1]
  <CustomerInvoiceDate>xs:dateTime</CustomerInvoiceDate>[0,1]
  <VendorFee>xs:decimal</VendorFee>[0,1]
  <VendorChargeStatus>ChargeStatus</VendorChargeStatus>[0,1]

```

```

<VendorAdjustmentReason>xs:string</VendorAdjustmentReason>[0,1]
<VendorPaidDate>xs:dateTime</VendorPaidDate>[0,1]
<VendorInvoiceDate>xs:dateTime</VendorInvoiceDate>[0,1]
<InvoiceNumber>in:string20</InvoiceNumber>[0,1]
<ChargeNo>in:GUID</ChargeNo>[0,1]
</ChargeLineItem>

```

Schema Component Representation

```

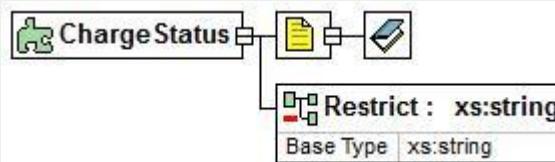
<xs:element name="ChargeLineItem">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="CustomerAdjustmentReason" type="xs:string" minOccurs="0"/>
      <xs:element name="CustomerPrice" type="xs:decimal" minOccurs="0"/>
      <xs:element name="CustomerChargeStatus" type="ChargeStatus" minOccurs="0"/>
      <xs:element name="CustomerPaidDate" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="CustomerInvoiceDate" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="VendorFee" type="xs:decimal" minOccurs="0"/>
      <xs:element name="VendorChargeStatus" type="ChargeStatus" minOccurs="0"/>
      <xs:element name="VendorAdjustmentReason" type="xs:string" minOccurs="0"/>
      <xs:element name="VendorPaidDate" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="VendorInvoiceDate" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="InvoiceNumber" type="in:string20" minOccurs="0"/>
      <xs:element name="ChargeNo" type="in:GUID" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

Simple Type: ChargeStatus

Super-types: [xs:string](#) < ChargeStatus (by restriction)

Sub-types: None

Name	ChargeStatus
Content	<ul style="list-style-type: none"> Base XSD Type: string value comes from list: {'NA' 'I' 'P' 'PD'}
Documentation	Simple type for a charge status (enum) I = invoiced P = Pending PD = Paid
Diagram	 <pre> classDiagram class ChargeStatus { <<Restrict : xs:string>> <<Base Type : xs:string>> } </pre>

Schema Component Representation

```

<xs:simpleType name="ChargeStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NA"/>
    <xs:enumeration value="I"/>
    <xs:enumeration value="P"/>
    <xs:enumeration value="PD"/>
  </xs:restriction>
</xs:simpleType>

```

Sample Response XML

Response XML is below.

```

<?xml version="1.0" encoding="utf-8"?>
<ChargeInformationRs xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ">
  <Header>
    <Code xmlns="http://fncinc.com/Integration.xsd">OK</Code>
    <Message xmlns="http://fncinc.com/Integration.xsd"/>
  </Header>
  <DocId>20140805-0149-1</DocId>

```

```

<ChargeLineItems>
  <ChargeLineItem>
    <CustomerPrice>400.0000</CustomerPrice>
    <CustomerChargeStatus>P</CustomerChargeStatus>
    <VendorFee>400.0000</VendorFee>
    <VendorChargeStatus>P</VendorChargeStatus>
    <VendorAdjustmentReason>SF</VendorAdjustmentReason>
    <ChargeNo>0d300333-5205-415d-93a3-fb19085d904c</ChargeNo>
  </ChargeLineItem>
  <ChargeLineItem>
    <CustomerAdjustmentReason>DF</CustomerAdjustmentReason>
    <CustomerPrice>765.0000</CustomerPrice>
    <CustomerChargeStatus>PD</CustomerChargeStatus>
    <CustomerPaidDate>2002-10-10T12:00:00</CustomerPaidDate>
    <CustomerInvoiceDate>2002-10-10T12:00:00</CustomerInvoiceDate>
    <VendorFee>700.0000</VendorFee>
    <VendorChargeStatus>PD</VendorChargeStatus>
    <VendorAdjustmentReason>DF</VendorAdjustmentReason>
    <VendorPaidDate>2002-10-10T12:00:00</VendorPaidDate>
    <VendorInvoiceDate>2002-10-10T12:00:00</VendorInvoiceDate>
    <InvoiceNumber>5544332211</InvoiceNumber>
    <ChargeNo>db217bf7-fc0d-4c67-b554-3d3b6a554d8f</ChargeNo>
  </ChargeLineItem>
  <ChargeLineItem>
    <CustomerAdjustmentReason>DF</CustomerAdjustmentReason>
    <CustomerPrice>365.0000</CustomerPrice>
    <CustomerChargeStatus>PD</CustomerChargeStatus>
    <CustomerPaidDate>2002-10-10T12:00:00</CustomerPaidDate>
    <CustomerInvoiceDate>2002-10-10T12:00:00</CustomerInvoiceDate>
    <VendorFee>300.0000</VendorFee>
    <VendorChargeStatus>PD</VendorChargeStatus>
    <VendorAdjustmentReason>DF</VendorAdjustmentReason>
    <VendorPaidDate>2002-10-10T12:00:00</VendorPaidDate>
    <VendorInvoiceDate>2002-10-10T12:00:00</VendorInvoiceDate>
    <InvoiceNumber>5544332211</InvoiceNumber>
    <ChargeNo>f41af4e1-6361-4add-b2b2-e0f4de89c41d</ChargeNo>
  </ChargeLineItem>
</ChargeLineItems>
</ChargeInformationRs>

```

Add Invoice Line Item Touchpoint

:: Add Invoice Line Item Request

The Add Invoice Line Item Request originates from the LOS. The post will add 1 to unlimited charges into the CMS Charge Out tab.

Actors

CMS This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.

Client System System responsible for data management and originating orders

Preconditions – Credentials entered into CMS interface setup

Post Conditions – Add Invoice Line Item request sent from LOS and processed in CMS

► Main Scenario

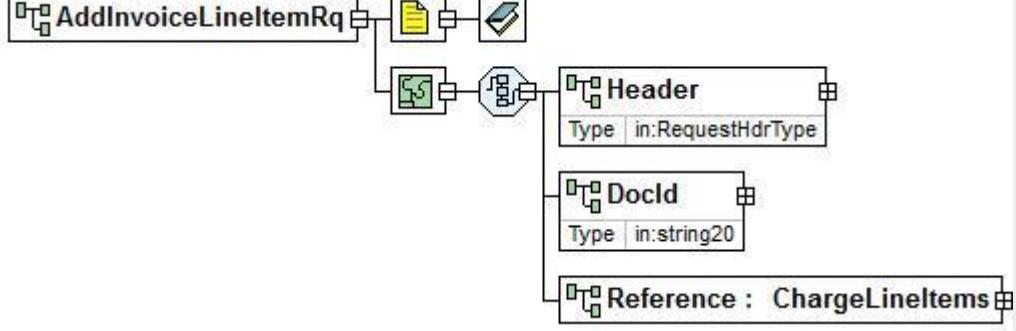
1. LOS sends Add Invoice Line Item Request to CMS.
2. CMS receives XML and validates XML.
3. CMS sends response to communicate successful receipt of XML.
4. CMS adds the individual charges to the specified DocId.

► Alternate Scenarios

1. Can't connect to CMS – System Error

2. CMS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. CMS sends a failure acknowledgement – an application error occurred.
4. CMS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

Element: AddInvoiceLineItemRq

Name	AddInvoiceLineItemRq
Type	Locally-defined complex type
Nillable	No
Abstract	no
Documentation	Touchpoint to allow adding new line items to the Charge Out tab from the LOS
Diagram	 <pre> classDiagram class AddInvoiceLineItemRq { <<Locally-defined complex type>> <<no>> <<Touchpoint to allow adding new line items to the Charge Out tab from the LOS>> } class Header { Type in:RequestHdrType } class DocId { Type in:string20 } class Reference { <<ChargeLineItems>> } AddInvoiceLineItemRq --> Header : AddInvoiceLineItemRq --> DocId : AddInvoiceLineItemRq --> Reference : </pre>

XML Instance Representation

```

<AddInvoiceLineItemRq>
  <Header>in:RequestHdrType</Header>[1,1]
  <DocId>in:string20</DocId>[1,1]
  <ChargeLineItems>...</ChargeLineItems>[1,1]
</AddInvoiceLineItemRq>

```

Schema Component Representation

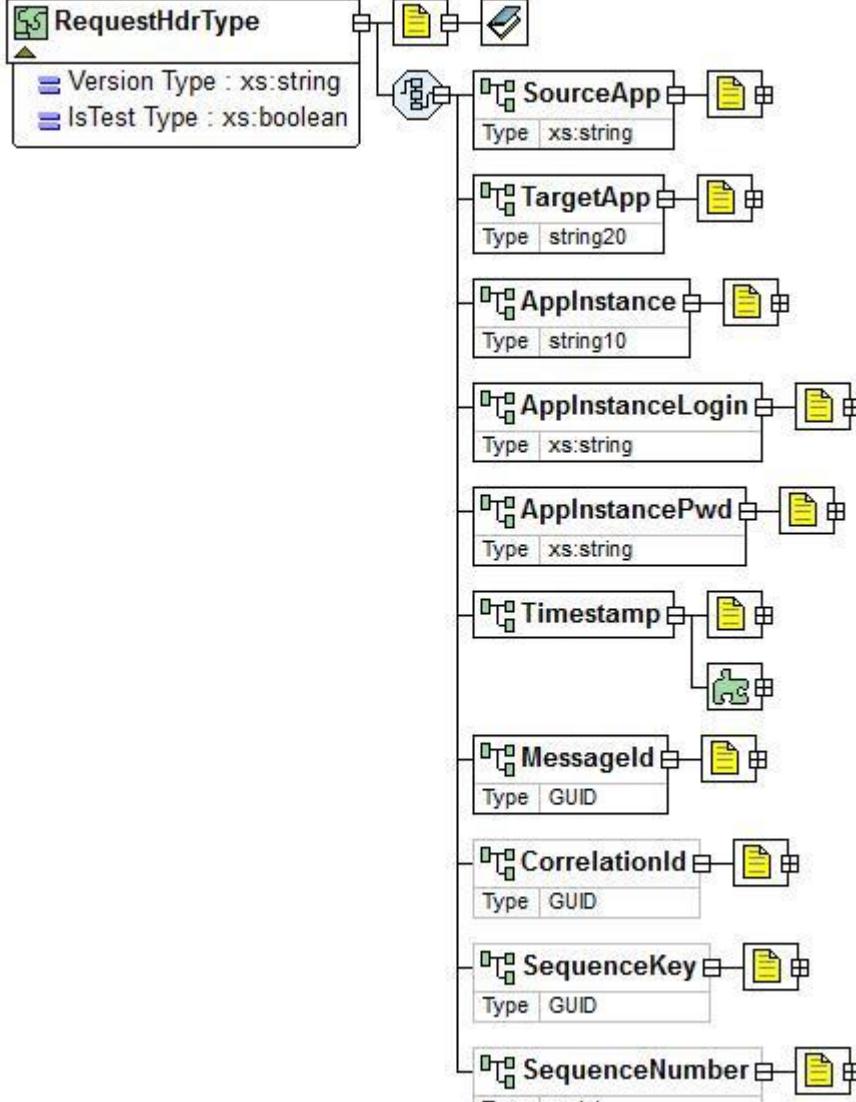
```

<xss:element name="AddInvoiceLineItemRq">
  <xss:complexType>
    <xss:sequence>
      <xss:element name="Header" type="in:RequestHdrType"/>
      <xss:element name="DocId" type="in:string20" minOccurs="1"/>
      <xss:element ref="ChargeLineItems" minOccurs="1"/>
    </xss:sequence>
  </xss:complexType>
</xss:element>

```

Complex Type: RequestHdrType

Super-types:	None
Sub-types:	None
Name	RequestHdrType
Abstract	no

Documentation	Standard request header
Diagram	 <pre> classDiagram class RequestHdrType { Version Type : xs:string IsTest Type : xs:boolean } class SourceApp { Type xs:string } class TargetApp { Type string20 } class ApplInstance { Type string10 } class ApplInstanceLogin { Type xs:string } class ApplInstancePwd { Type xs:string } class Timestamp { Type xs:dateTime } class MessageId { Type GUID } class CorrelationId { Type GUID } class SequenceKey { Type GUID } class SequenceNumber { Type xs:int } RequestHdrType < -- RequestHdrType RequestHdrType --> SourceApp RequestHdrType --> TargetApp RequestHdrType --> ApplInstance RequestHdrType --> ApplInstanceLogin RequestHdrType --> ApplInstancePwd RequestHdrType --> Timestamp RequestHdrType --> MessageId RequestHdrType --> CorrelationId RequestHdrType --> SequenceKey RequestHdrType --> SequenceNumber </pre>

XML Instance Representation

```

<...
  Version="1.0" IsTest="xs:boolean">
  <SourceApp> xs:string </SourceApp> [1,1]
  <TargetApp> string20 </TargetApp> [1,1]
  <ApplInstance> string10 </ApplInstance> [1,1]
  <ApplInstanceLogin> xs:string </ApplInstanceLogin> [1,1]
  <ApplInstancePwd> xs:string </ApplInstancePwd> [1,1]
  <Timestamp> xs:dateTime </Timestamp> [1,1]
  <MessageId> GUID </MessageId> [1,1]
  <CorrelationId> GUID </CorrelationId> [0,1]
  <SequenceKey> GUID </SequenceKey> [0,1]
  <SequenceNumber> xs:int </SequenceNumber> [0,1]
</...>
  
```

Schema Component Representation

```

<xs:complexType name="RequestHdrType">
  <xs:sequence>
    <xs:element name="SourceApp" type="xs:string"/>
    <xs:element name="TargetApp" type="string20"/>
    <xs:element name="ApplInstance" type="string10"/>
    <xs:element name="ApplInstanceLogin" type="xs:string"/>
    <xs:element name="ApplInstancePwd" type="xs:string"/>
    <xs:element name="Timestamp">
      <xs:simpleType>
        <xs:restriction base="xs:dateTime"/>
      </xs:simpleType>
    </xs:element>
    <xs:element name="MessageId" type="GUID"/>
    <xs:element name="CorrelationId" type="GUID" minOccurs="0"/>
    <xs:element name="SequenceKey" type="GUID" minOccurs="0"/>
    <xs:element name="SequenceNumber" type="xs:int" minOccurs="0"/>
  </xs:sequence>
  <xs:attribute name="Version" type="xs:string" fixed="1.0" use="optional"/>

```

```

<xs:attribute name="IsTest" type="xs:boolean" default="false" use="optional"/>
</xs:complexType>

```

Element: ChargeLineItems

Name	ChargeLineItems
Type	Locally-defined complex type
Nillable	no
Abstract	no
Diagram	 <pre> sequenceDiagram participant ChargeLineItems participant ChargeLineItem ChargeLineItems->>ChargeLineItem: activate ChargeLineItem Note over ChargeLineItem: Reference : ChargeLineItem deactivate ChargeLineItem </pre>

XML Instance Representation

```

<ChargeLineItems>
    <ChargeLineItem>...</ChargeLineItem>[0,*]
</ChargeLineItems>

```

Schema Component Representation

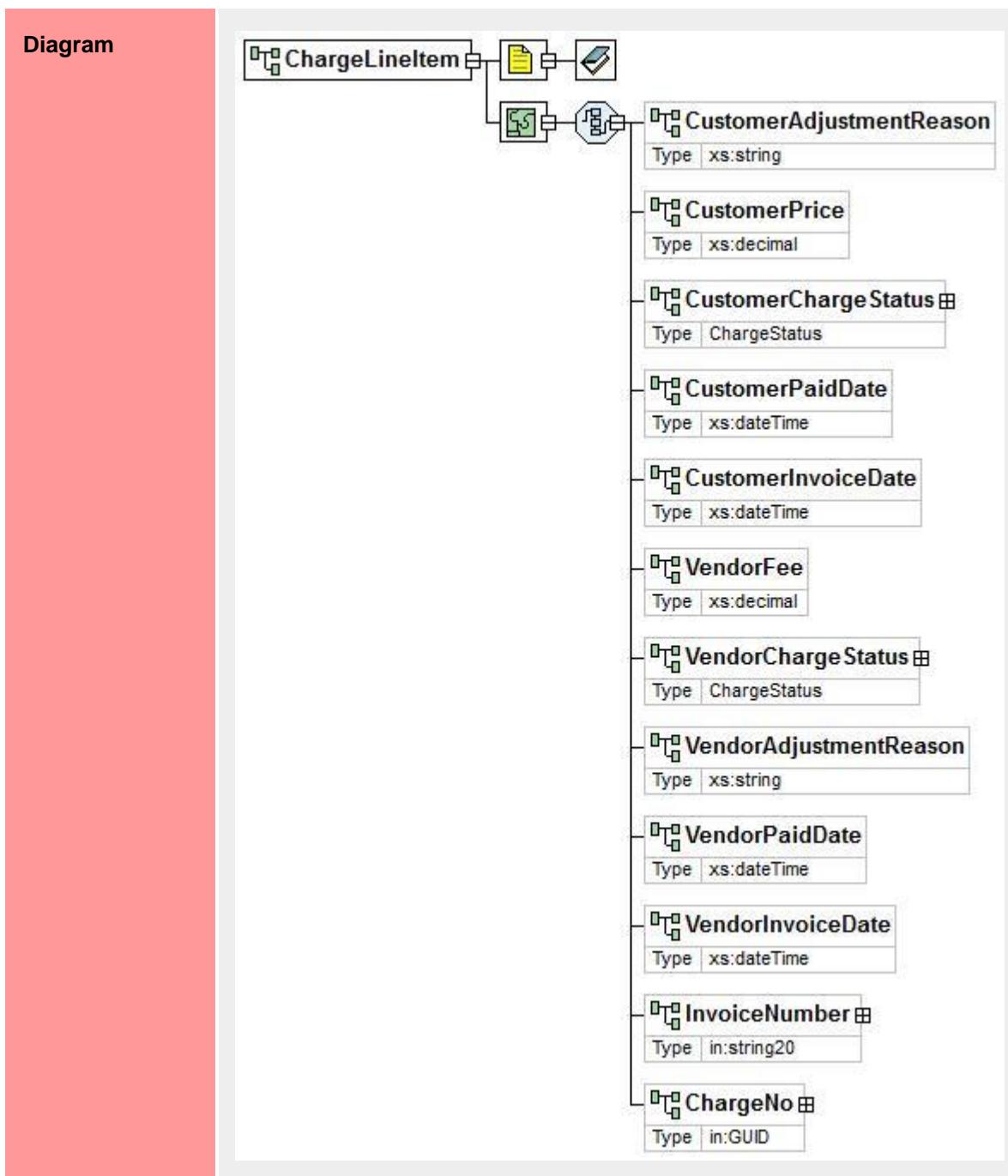
```

<xs:element name="ChargeLineItems">
    <xs:complexType>
        <xs:sequence>
            <xs:element ref="ChargeLineItem" minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

Element: ChargeLineItem

Name	ChargeLineItem
Type	Locally-defined complex type
Nillable	no
Abstract	no
Documentation	The individual charges and additional information for the specified DocId.



XML Instance Representation

```

<ChargeLineItem>
    <CustomerAdjustmentReason>xs:string</CustomerAdjustmentReason>[0,1]
    <CustomerPrice>xs:decimal</CustomerPrice>[0,1]
    <CustomerChargeStatus>ChargeStatus</CustomerChargeStatus>[0,1]
    <CustomerPaidDate>xs:dateTime</CustomerPaidDate>[0,1]
    <CustomerInvoiceDate>xs:dateTime</CustomerInvoiceDate>[0,1]
    <VendorFee>xs:decimal</VendorFee>[0,1]
    <VendorChargeStatus>ChargeStatus</VendorChargeStatus>[0,1]
    <VendorAdjustmentReason>xs:string</VendorAdjustmentReason>[0,1]
    <VendorPaidDate>xs:dateTime</VendorPaidDate>[0,1]
    <VendorInvoiceDate>xs:dateTime</VendorInvoiceDate>[0,1]
    <InvoiceNumber>in:string20</InvoiceNumber>[0,1]
    <ChargeNo>in:GUID</ChargeNo>[0,1]
</ChargeLineItem>

```

Schema Component Representation

```

<xs:element name="ChargeLineItem">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="CustomerAdjustmentReason" type="xs:string" minOccurs="0"/>
            <xs:element name="CustomerPrice" type="xs:decimal" minOccurs="0"/>
            <xs:element name="CustomerChargeStatus" type="ChargeStatus" minOccurs="0"/>
            <xs:element name="CustomerPaidDate" type="xs:dateTime" minOccurs="0"/>
            <xs:element name="CustomerInvoiceDate" type="xs:dateTime" minOccurs="0"/>
            <xs:element name="VendorFee" type="xs:decimal" minOccurs="0"/>
            <xs:element name="VendorChargeStatus" type="ChargeStatus" minOccurs="0"/>
            <xs:element name="VendorAdjustmentReason" type="xs:string" minOccurs="0"/>
            <xs:element name="VendorPaidDate" type="xs:dateTime" minOccurs="0"/>
            <xs:element name="VendorInvoiceDate" type="xs:dateTime" minOccurs="0"/>
            <xs:element name="InvoiceNumber" type="in:string20" minOccurs="0"/>
            <xs:element name="ChargeNo" type="in:GUID" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

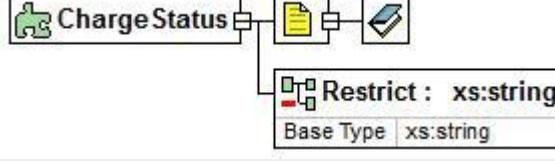
```

```
</xs:sequence>
</xs:complexType>
</xs:element>
```

Simple Type: ChargeStatus

Super-types: [xs:string](#) < **ChargeStatus** (by restriction)

Sub-types: None

Name	ChargeStatus
Content	<ul style="list-style-type: none"> Base XSD Type: string value comes from list: {'NA' 'I' 'P' 'PD'}
Documentation	Simple type for a charge stuatus (enum) I = invoiced P = Pending PD = Paid
Diagram	 <pre> classDiagram class ChargeStatus { <<Simple type for a charge stuatus (enum) I = invoiced P = Pending PD = Paid>> } class Restrict { <<Restriction on ChargeStatus</>> <<Base Type xs:string</>> } ChargeStatus < -- Restrict </pre>

Schema Component Representation

```
<xs:simpleType name="ChargeStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NA"/>
    <xs:enumeration value="I"/>
    <xs:enumeration value="P"/>
    <xs:enumeration value="PD"/>
  </xs:restriction>
</xs:simpleType>
```

Sample Post XML

```
<?xml version="1.0"?>
<AddInvoiceLineItemRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ"
  xsi:schemaLocation="http://fncinc.com/CHQ">
  <Header>
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">LOS</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">CHQ</TargetApp>
    <ApplInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</ApplInstance>
    <ApplInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</ApplInstanceLogin>
    <ApplInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123!</ApplInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2014-05-13T10:50:59.430</Timestamp>
    <MessageId xmlns="http://fncinc.com/Integration.xsd">adca50d4-8b85-4223-1111-82a0213b5125</MessageId>
  </Header>
  <DocId>20140805-0149-1</DocId>
  <ChargeLineItems>
    <ChargeLineItem>
      <CustomerAdjustmentReason>DF</CustomerAdjustmentReason>
      <CustomerPrice>365.00</CustomerPrice>
      <CustomerChargeStatus>PD</CustomerChargeStatus>
      <CustomerPaidDate>2002-10-10T12:00:00-05:00</CustomerPaidDate>
      <CustomerInvoiceDate>2002-10-10T12:00:00-05:00</CustomerInvoiceDate>
      <VendorFee>300.00</VendorFee>
      <VendorChargeStatus>PD</VendorChargeStatus>
      <VendorAdjustmentReason>DF</VendorAdjustmentReason>
      <VendorPaidDate>2002-10-10T12:00:00-05:00</VendorPaidDate>
      <VendorInvoiceDate>2002-10-10T12:00:00-05:00</VendorInvoiceDate>
      <InvoiceNumber>5544332211</InvoiceNumber>
      <ChargeNo>00000000-0000-0000-0000-000000000000</ChargeNo>
    </ChargeLineItem>
    <ChargeLineItem>
      <CustomerAdjustmentReason>DF</CustomerAdjustmentReason>
      <CustomerPrice>765.00</CustomerPrice>
      <CustomerChargeStatus>PD</CustomerChargeStatus>
      <CustomerPaidDate>2002-10-10T12:00:00-05:00</CustomerPaidDate>
      <CustomerInvoiceDate>2002-10-10T12:00:00-05:00</CustomerInvoiceDate>
    </ChargeLineItem>
  </ChargeLineItems>
</AddInvoiceLineItemRq>
```

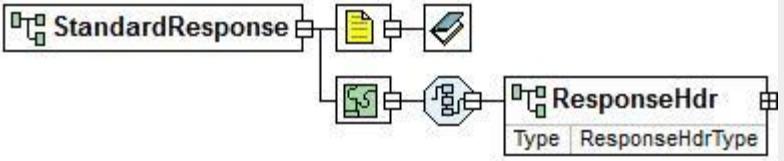
```

<VendorFee>700.00</VendorFee>
<VendorChargeStatus>PD</VendorChargeStatus>
<VendorAdjustmentReason>DF</VendorAdjustmentReason>
<VendorPaidDate>2002-10-10T12:00:00-05:00</VendorPaidDate>
<VendorInvoiceDate>2002-10-10T12:00:00-05:00</VendorInvoiceDate>
<InvoiceNumber>5544332211</InvoiceNumber>
<ChargeNo>00000000-0000-0000-0000-000000000001</ChargeNo>
</ChargeLineItem>
</ChargeLineItems>
</AddInvoiceLineItemRq>

```

:: Add Invoice Line Item Response

Element: StandardResponse

Name	StandardResponse
Type	Locally-defined complex type
<u>Nillable</u>	no
<u>Abstract</u>	no
Documentation	The element sent for an simple response
Diagram	 <pre> classDiagram class StandardResponse { <<Complex Type>> <<Sequence>> ResponseHdr ResponseHdrType } class ResponseHdr { <<Simple Type>> <<Union>> Type ResponseHdrType } StandardResponse --> ResponseHdr ResponseHdr --> ResponseHdrType </pre>

XML Instance Representation

```

<StandardResponse>
  <ResponseHdr>ResponseHdrType</ResponseHdr>[1,1]
</StandardResponse>

```

Schema Component Representation

```

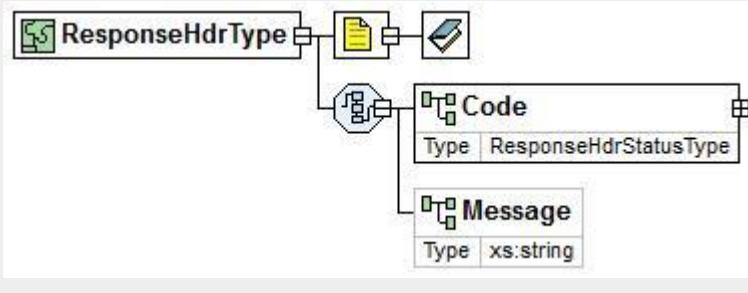
<xss:element name="StandardResponse">
  <xss:complexType>
    <xss:sequence>
      <xss:element name="ResponseHdr" type="ResponseHdrType"/>
    </xss:sequence>
  </xss:complexType>
</xss:element>

```

Complex Type: ResponseHdrType

Super-types:	None
Sub-types:	None
Name	ResponseHdrType
<u>Abstract</u>	no
Documentation	Standard response header

Diagram



XML Instance Representation

```

<...>
<Code>ResponseHdrStatusType</Code> [1,1]
<Message>xs:string</Message> [0,1]
</...>
  
```

Schema Component Representation

```

<xs:complexType name="ResponseHdrType">
  <xs:sequence>
    <xs:element name="Code" type="ResponseHdrStatusType"/>
    <xs:element name="Message" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
  
```

Sample Response XML

```

<?xml version="1.0" encoding="utf-8"?>
<StandardResponse xsi:schemaLocation="http://fncinc.com/CHQ CMS.xsd" xmlns:in="http://fncinc.com/Integration.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <ResponseHdr>
    <Code>OK</Code>
    <Message/>
  </ResponseHdr>
</StandardResponse>
  
```

Charge Payment Touchpoint

:: Charge Payment Request

The Charge Payment originates from the LOS. This post will trigger a payment email to the provided email in the post. A known Charge Number must be provided.

Actors

CMS This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.

Client System System responsible for data management and originating orders

Preconditions – Credentials entered into CMS interface setup

Post Conditions – Charge Payment request sent from LOS and processed in CMS

▶ Main Scenario

1. LOS sends Charge Payment Request to CMS.
2. CMS receives XML and validates XML.
3. CMS sends response to communicate successful receipt of XML.
4. CMS sends payment email to the email provided.

▶ Alternate Scenarios

1. Can't connect to CMS – System Error

2. CMS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. CMS sends a failure acknowledgement – an application error occurred.
4. CMS sends a failure acknowledgement – a system error occurred.
5. CMS cannot find Charge Number provided.

Element: ChargePaymentRq

Name	ChargePaymentRq
Type	Locally-defined complex type
Nillable	no
Abstract	no
Documentation	Touchpoint to send a payment email to the provided email.
Diagram	<pre> classDiagram class ChargePaymentRq { <<Locally-defined complex type>> <<no>> <<no>> <<Touchpoint to send a payment email to the provided email.>> } class Header { <<in:RequestHdrType>> } class DocId { <<in:string20>> } class PaymentEmail { <<xs:string>> } class Charges { <<Reference : Charges>> } ChargePaymentRq --> Header : ChargePaymentRq --> DocId : ChargePaymentRq --> PaymentEmail : ChargePaymentRq --> Charges : </pre>

XML Instance Representation

```

<ChargePaymentRq>
  <Header>in:RequestHdrType</Header>[1,1]
  <DocId>in:string20</DocId>[1,1]
  <PaymentEmail>xs:string</PaymentEmail>[0,1]
  <Charges>...</Charges>[1,1]
</ChargePaymentRq>
  
```

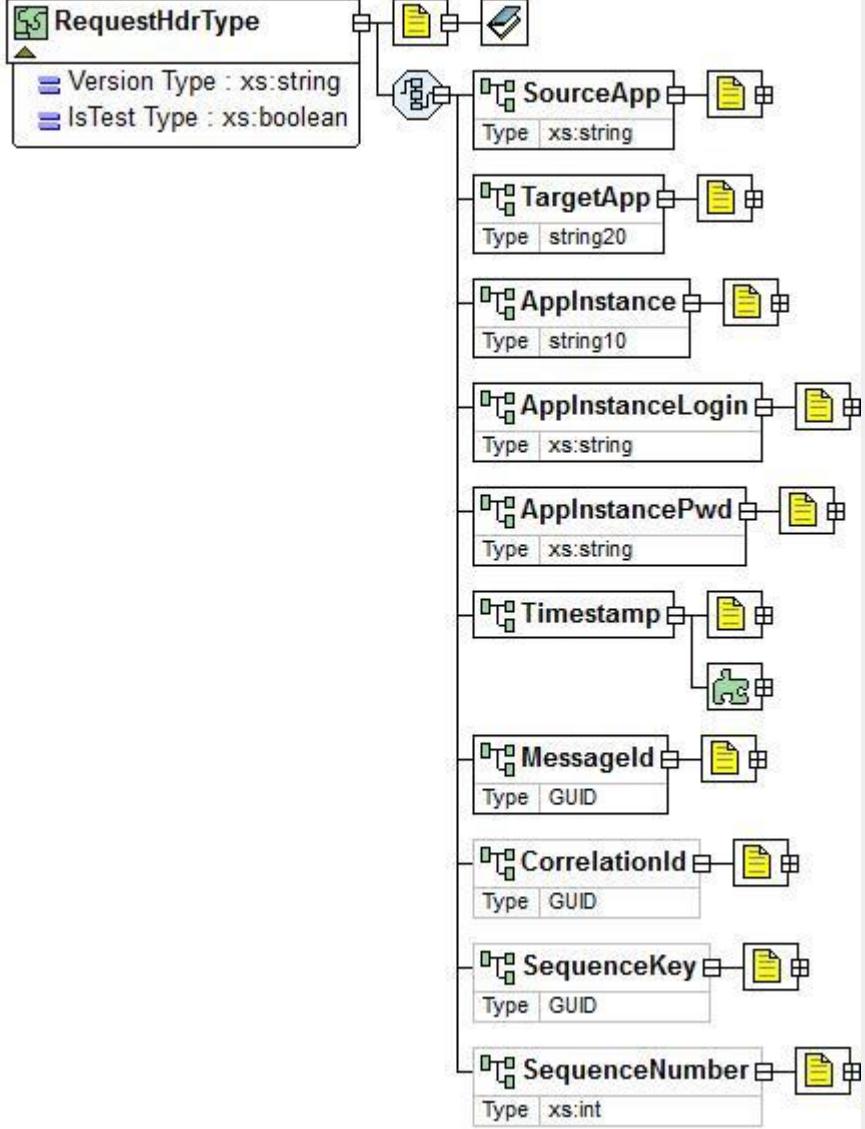
Schema Component Representation

```

<xs:element name="ChargePaymentRq">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="Header" type="in:RequestHdrType"/>
      <xs:element name="DocId" type="in:string20" minOccurs="1"/>
      <xs:element name="PaymentEmail" type="xs:string" minOccurs="0"/>
      <xs:element ref="Charges" minOccurs="1"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
  
```

Complex Type: RequestHdrType

Super-types:	None
Sub-types:	None

Name	RequestHdrType
Abstract	no
Documentation	Standard request header
Diagram	 <pre> classDiagram class RequestHdrType { Version Type : xs:string IsTest Type : xs:boolean } class Object class SourceApp { Type : xs:string } class TargetApp { Type : string20 } class AppInstance { Type : string10 } class AppInstanceLogin { Type : xs:string } class AppInstancePwd { Type : xs:string } class Timestamp class MessageId { Type : GUID } class CorrelationId { Type : GUID } class SequenceKey { Type : GUID } class SequenceNumber { Type : xs:int } RequestHdrType < -- Object RequestHdrType --> SourceApp RequestHdrType --> TargetApp RequestHdrType --> AppInstance RequestHdrType --> AppInstanceLogin RequestHdrType --> AppInstancePwd RequestHdrType --> Timestamp RequestHdrType --> MessageId RequestHdrType --> CorrelationId RequestHdrType --> SequenceKey RequestHdrType --> SequenceNumber </pre>

XML Instance Representation

```

<...
  Version="1.0" IsTest="xs:boolean">
  <SourceApp> xs:string </SourceApp> [1,1]
  <TargetApp> string20 </TargetApp> [1,1]
  <AppInstance> string10 </AppInstance> [1,1]
  <AppInstanceLogin> xs:string </AppInstanceLogin> [1,1]
  <AppInstancePwd> xs:string </AppInstancePwd> [1,1]
  <Timestamp> xs:dateTime </Timestamp> [1,1]
  <MessageId> GUID </MessageId> [1,1]
  <CorrelationId> GUID </CorrelationId> [0,1]
  <SequenceKey> GUID </SequenceKey> [0,1]
  <SequenceNumber> xs:int </SequenceNumber> [0,1]
</...>
  
```

Schema Component Representation

```

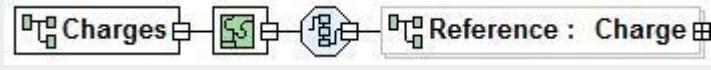
<xss:complexType name="RequestHdrType">
  <xss:sequence>
    <xss:element name="SourceApp" type="xs:string"/>
    <xss:element name="TargetApp" type="string20"/>
    <xss:element name="AppInstance" type="string10"/>
    <xss:element name="AppInstanceLogin" type="xs:string"/>
    <xss:element name="AppInstancePwd" type="xs:string"/>
    <xss:element name="Timestamp">
      <xss:simpleType>
        <xss:restriction base="xs:dateTime"/>
      </xss:simpleType>
    </xss:element>
  </xss:sequence>
</xss:complexType>
  
```

```

<xs:element name="MessageId" type="GUID"/>
<xs:element name="CorrelationId" type="GUID" minOccurs="0"/>
<xs:element name="SequenceKey" type="GUID" minOccurs="0"/>
<xs:element name="SequenceNumber" type="xs:int" minOccurs="0"/>
</xs:sequence>
<xs:attribute name="Version" type="xs:string" fixed="1.0" use="optional"/>
<xs:attribute name="IsTest" type="xs:boolean" default="false" use="optional"/>
</xs:complexType>

```

Element: Charges

Name	Charges
Type	Locally-defined complex type
Nillable	no
Abstract	no
Diagram	

XML Instance Representation

```

<Charges>
  <Charge>...</Charge>[0,20]
</Charges>

```

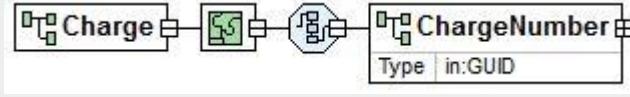
Schema Component Representation

```

<xs:element name="Charges">
  <xs:complexType>
    <xs:sequence>
      <xs:element ref="Charge" minOccurs="0" maxOccurs="20"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

Element: Charge

Name	Charge
Type	Locally-defined complex type
Nillable	no
Abstract	no
Diagram	

XML Instance Representation

```

<Charge>
  <ChargeNumber>in:GUID</ChargeNumber>[1,1]
</Charge>

```

Schema Component Representation

```

<xs:element name="Charge">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="ChargeNumber" type="in:GUID" minOccurs="1"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

Sample Post XML

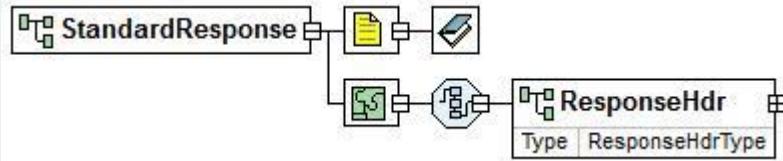
```

<?xml version="1.0"?>
<ChargePaymentRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ"
xsi:schemaLocation="http://fncinc.com/CHQ">
    <Header>
        <SourceApp xmlns="http://fncinc.com/Integration.xsd">LOS</SourceApp>
        <TargetApp xmlns="http://fncinc.com/Integration.xsd">CHQ</TargetApp>
        <AppInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</AppInstance>
        <AppInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</AppInstanceLogin>
        <AppInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123!</AppInstancePwd>
        <Timestamp xmlns="http://fncinc.com/Integration.xsd">2014-05-13T10:50:59.430</Timestamp>
        <MessageId xmlns="http://fncinc.com/Integration.xsd">adca50d4-8b85-4223-1111-82a0213b5125</MessageId>
    </Header>
    <DocId>20140805-0149-1</DocId>
    <PaymentEmail>noreply@fncinc.com</PaymentEmail>
    <Charges>
        <Charge>
            <ChargeNumber>A9FE2BA0-1EB9-473D-9CA7-FE3B692C01A1</ChargeNumber>
        </Charge>
    </Charges>
</ChargePaymentRq>

```

:: Charge Payment Response

Element: StandardResponse

Name	StandardResponse
Type	Locally-defined complex type
Nillable	no
Abstract	no
Documentation	The element sent for an simple response
Diagram	 <p>The diagram illustrates the structure of the StandardResponse element. It consists of two main components: 'StandardResponse' and 'ResponseHdr'. The 'StandardResponse' component is represented by a rectangle with a small icon in the top-left corner. It has a sequence of three operations connected by arrows: a yellow folder icon, a blue pencil icon, and a green square icon. The 'ResponseHdr' component is also a rectangle with a similar icon. Below it, there is a detailed view showing its internal structure: 'Type' and 'ResponseHdrType'.</p>

XML Instance Representation

```

<StandardResponse>
    <ResponseHdr>ResponseHdrType</ResponseHdr>[1,1]
</StandardResponse>

```

Schema Component Representation

```

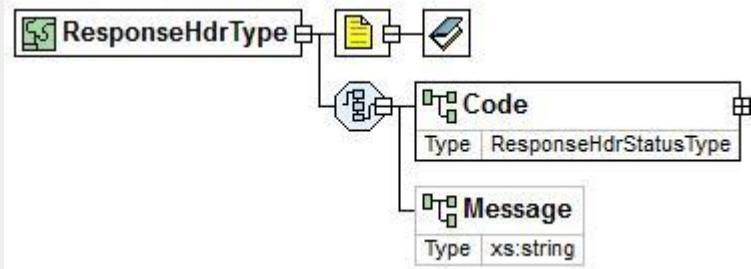
<xss:element name="StandardResponse">
    <xss:complexType>
        <xss:sequence>
            <xss:element name="ResponseHdr" type="ResponseHdrType"/>
        </xss:sequence>
    </xss:complexType>
</xss:element>

```

Complex Type: ResponseHdrType

Super-types: None

Sub-types: None

Name	ResponseHdrType
<u>Abstract</u>	no
Documentation	Standard response header
Diagram	 <pre> classDiagram class ResponseHdrType { <<ResponseHdrStatusType>> Code [1..1] xs:string Message [0..1] } class Code { ResponseHdrStatusType } class Message { xs:string } </pre>

XML Instance Representation

```

<...>
  <Code>ResponseHdrStatusType</Code> [1,1]
  <Message>xs:string</Message> [0,1]
</...>

```

Schema Component Representation

```

<xs:complexType name="ResponseHdrType">
  <xs:sequence>
    <xs:element name="Code" type="ResponseHdrStatusType"/>
    <xs:element name="Message" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>

```

Sample Response XML

```

<?xml version="1.0" encoding="utf-8"?>
<StandardResponse xsi:schemaLocation="http://fncinc.com/CHQ CMS.xsd" xmlns:in="http://fncinc.com/Integration.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <ResponseHdr>
    <Code>OK</Code>
    <Message/>
  </ResponseHdr>
</StandardResponse>

```

Send Charges Touchpoint

:: Send Charges Request

The Send Charges Touchpoint originates from CMS. The XML post will be triggered from CMS to the Client System (ordering system), when an order has a Charge Item added, edited, or deleted.

Actors

CMS This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.

Client System System responsible for data management and originating orders

Preconditions – URL for Client system is completed in CMS

Post Conditions – Order updates sent from CMS and processed in Client System.

► Main Scenario

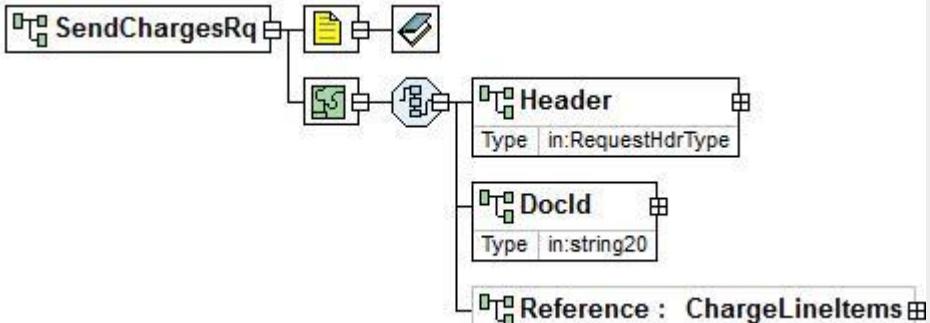
1. An order has a charge item added, edited, or deleted.
2. CMS sends Send Charges Touchpoint to the Client System.

3. Client System receives XML and validates XML.
4. Client System sends response to communicate successful receipt of XML.
5. Client System updates order in its system with invoice information.

► Alternate Scenarios

1. Can't connect to LOS – System Error
2. LOS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. LOS sends a failure acknowledgement – an application error occurred.
4. LOS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

Element: **SendChargesRq**

Name	SendChargesRq
Type	Locally-defined complex type
Nillable	no
Abstract	no
Documentation	The SendChargesRq will contain the lineitem information for each charge for a doc
Diagram	 <pre> classDiagram class SendChargesRq { <<RequestHdrType>> } class Header { <<RequestHdrType>> } class DocId { <<string20>> } class ChargeLineItems SendChargesRq < -- RequestHdrType SendChargesRq --> DocId SendChargesRq --> ChargeLineItems DocId < -- string20 </pre>

XML Instance Representation

```

<SendChargesRq>
  <Header>in:RequestHdrType</Header>[1]
  <DocId>in:string20</DocId>[1]
  <ChargeLineItems>...</ChargeLineItems>[0..1]
</SendChargesRq>

```

Schema Component Representation

```

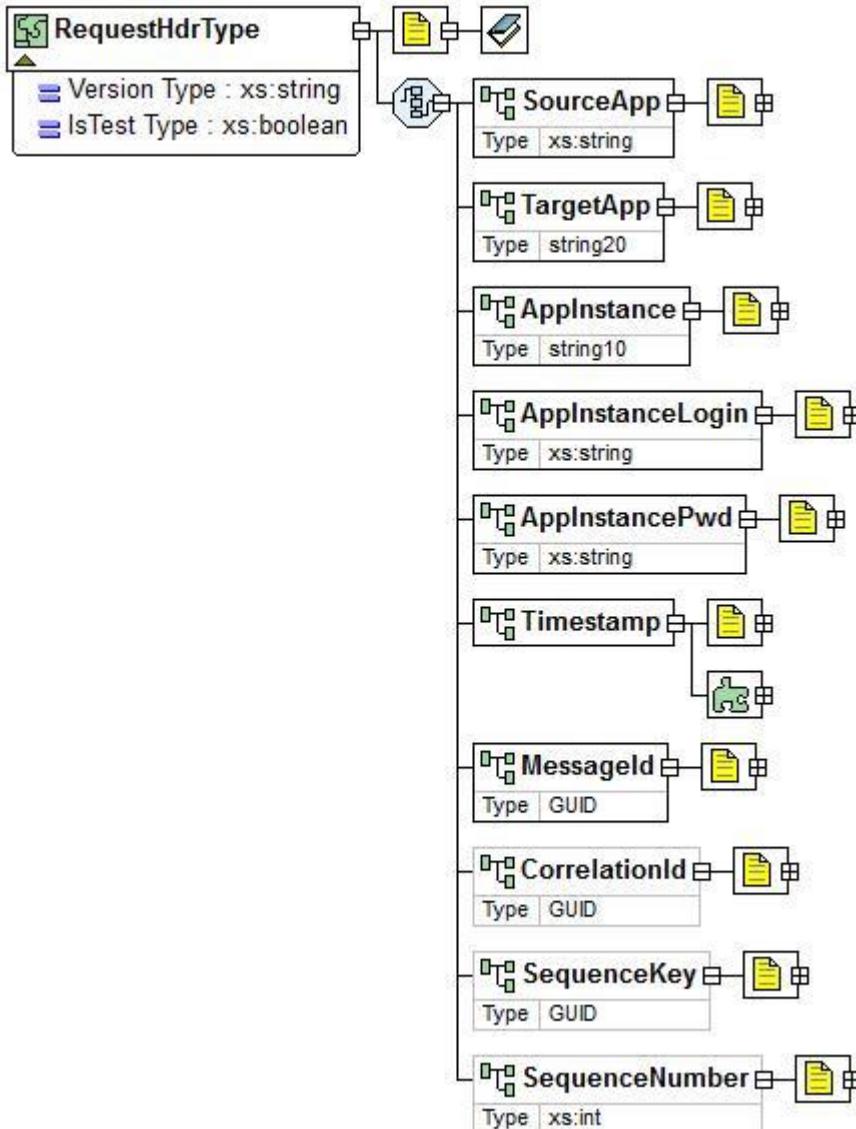
<xs:element name="SendChargesRq">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="Header" type="in:RequestHdrType"/>
      <xs:element name="DocId" type="in:string20" minOccurs="1"/>
      <xs:element ref="ChargeLineItems" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

Complex Type: **RequestHdrType**

Super-types: None

Sub-types: None

Name	RequestHdrType
Abstract	no
Documentation	Standard request header
Diagram	 <pre> classDiagram class RequestHdrType { Version Type : xs:string IsTest Type : xs:boolean } class SourceApp { Type xs:string } class TargetApp { Type string20 } class ApplInstance { Type string10 } class ApplInstanceLogin { Type xs:string } class ApplInstancePwd { Type xs:string } class Timestamp { Type xs:dateTime } class MessageId { Type GUID } class CorrelationId { Type GUID } class SequenceKey { Type GUID } class SequenceNumber { Type xs:int } RequestHdrType < -- SourceApp RequestHdrType < -- TargetApp RequestHdrType < -- ApplInstance RequestHdrType < -- ApplInstanceLogin RequestHdrType < -- ApplInstancePwd RequestHdrType < -- Timestamp RequestHdrType < -- MessageId RequestHdrType < -- CorrelationId RequestHdrType < -- SequenceKey RequestHdrType < -- SequenceNumber </pre>

XML Instance Representation

```

<...
  Version="1.0" IsTest="xs:boolean">
  <SourceApp> xs:string </SourceApp> [1,1]
  <TargetApp> string20 </TargetApp> [1,1]
  <ApplInstance> string10 </ApplInstance> [1,1]
  <ApplInstanceLogin> xs:string </ApplInstanceLogin> [1,1]
  <ApplInstancePwd> xs:string </ApplInstancePwd> [1,1]
  <Timestamp> xs:dateTime </Timestamp> [1,1]
  <MessageId> GUID </MessageId> [1,1]
  <CorrelationId> GUID </CorrelationId> [0,1]
  <SequenceKey> GUID </SequenceKey> [0,1]
  <SequenceNumber> xs:int </SequenceNumber> [0,1]
</...>
  
```

Schema Component Representation

```

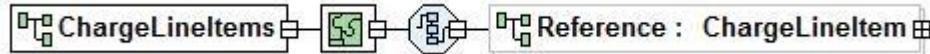
<xss:complexType name="RequestHdrType">
  <xss:sequence>
    <xss:element name="SourceApp" type="xs:string"/>
    <xss:element name="TargetApp" type="string20"/>
  </xss:sequence>
</xss:complexType>
  
```

```

<xs:element name="ApplInstance" type="string10"/>
<xs:element name="ApplInstanceLogin" type="xs:string"/>
<xs:element name="ApplInstancePwd" type="xs:string"/>
<xs:element name="Timestamp">
    <xs:simpleType>
        <xs:restriction base="xs:dateTime"/>
    </xs:simpleType>
</xs:element>
<xs:element name="MessageId" type="GUID"/>
<xs:element name="CorrelationId" type="GUID" minOccurs="0"/>
<xs:element name="SequenceKey" type="GUID" minOccurs="0"/>
<xs:element name="SequenceNumber" type="xs:int" minOccurs="0"/>
</xs:sequence>
<xs:attribute name="Version" type="xs:string" fixed="1.0" use="optional"/>
<xs:attribute name="IsTest" type="xs:boolean" default="false" use="optional"/>
</xs:complexType>

```

Element: ChargeLineItems

Name	ChargeLineItems
Type	Locally-defined complex type
Nillable	no
Abstract	no
Diagram	

XML Instance Representation

```

<ChargeLineItems>
    <ChargeLineItem>...</ChargeLineItem>[0,*]
</ChargeLineItems>

```

Schema Component Representation

```

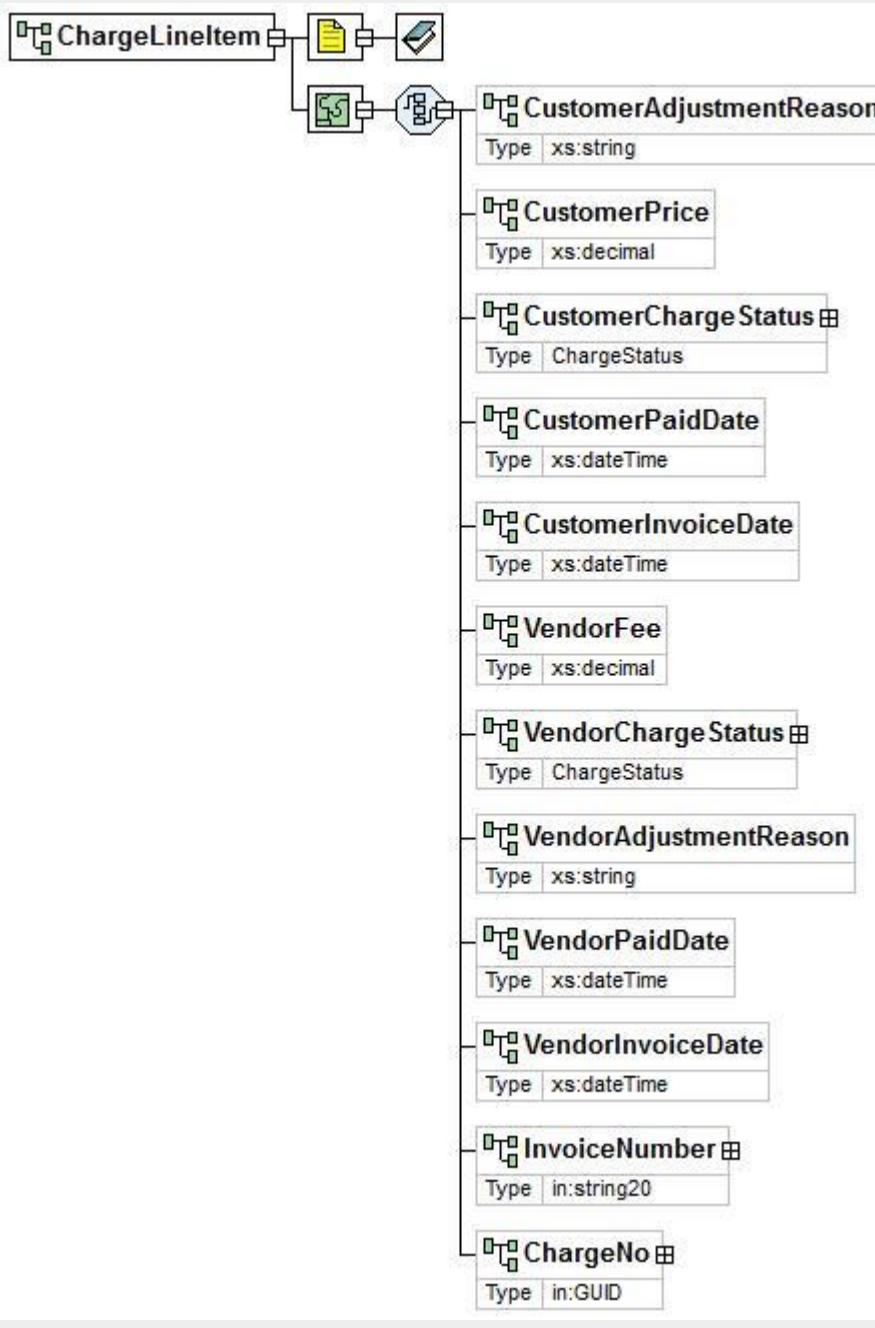
<xs:element name="ChargeLineItems">
    <xs:complexType>
        <xs:sequence>
            <xs:element ref="ChargeLineItem" minOccurs="0" maxOccurs="unbounded"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

```

Element: ChargeLineItem

Name	ChargeLineItem
Type	Locally-defined complex type
Nillable	no
Abstract	no
Documentation	The individual charges and additional information for the specified DocId.

Diagram



XML Instance Representation

```

<ChargeLineItem>
    <CustomerAdjustmentReason>xsd:string</CustomerAdjustmentReason>[0,1]
    <CustomerPrice>xsd:decimal</CustomerPrice>[0,1]
    <CustomerChargeStatus>ChargeStatus</CustomerChargeStatus>[0,1]
    <CustomerPaidDate>xsd:dateTime</CustomerPaidDate>[0,1]
    <CustomerInvoiceDate>xsd:dateTime</CustomerInvoiceDate>[0,1]
    <VendorFee>xsd:decimal</VendorFee>[0,1]
    <VendorChargeStatus>ChargeStatus</VendorChargeStatus>[0,1]
    <VendorAdjustmentReason>xsd:string</VendorAdjustmentReason>[0,1]
    <VendorPaidDate>xsd:dateTime</VendorPaidDate>[0,1]
    <VendorInvoiceDate>xsd:dateTime</VendorInvoiceDate>[0,1]
    <InvoiceNumber>in:string20</InvoiceNumber>[0,1]
    <ChargeNo>in:GUID</ChargeNo>[0,1]
</ChargeLineItem>

```

Schema Component Representation

```

<xs:element name="ChargeLineItem">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="CustomerAdjustmentReason" type="xs:string" minOccurs="0"/>
            <xs:element name="CustomerPrice" type="xs:decimal" minOccurs="0"/>
            <xs:element name="CustomerChargeStatus" type="ChargeStatus" minOccurs="0"/>
            <xs:element name="CustomerPaidDate" type="xs:dateTime" minOccurs="0"/>
            <xs:element name="CustomerInvoiceDate" type="xs:dateTime" minOccurs="0"/>
            <xs:element name="VendorFee" type="xs:decimal" minOccurs="0"/>
            <xs:element name="VendorChargeStatus" type="ChargeStatus" minOccurs="0"/>
            <xs:element name="VendorAdjustmentReason" type="xs:string" minOccurs="0"/>
            <xs:element name="VendorPaidDate" type="xs:dateTime" minOccurs="0"/>
            <xs:element name="VendorInvoiceDate" type="xs:dateTime" minOccurs="0"/>
            <xs:element name="InvoiceNumber" type="in:string20" minOccurs="0"/>
        </xs:sequence>
    </xs:complexType>
</xs:element>

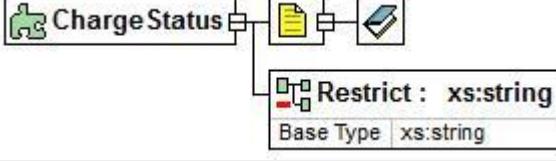
```

```

<xs:element name="ChargeNo" type="in:GUID" minOccurs="0"/>
</xs:sequence>
</xs:complexType>
</xs:element>

```

Simple Type: ChargeStatus

Super-types:	xs:string < ChargeStatus (by restriction)
Sub-types:	None
Name	ChargeStatus
Content	<ul style="list-style-type: none"> Base XSD Type: string value comes from list: {'NA' 'I' 'P' 'PD'}
Documentation	Simple type for a charge stuatus (enum) I = invoiced P = Pending PD = Paid
Diagram	 <pre> classDiagram class ChargeStatus { <<xs:string>> } class xs:string { <<Restriction>> <<BaseType>> xs:string } ChargeStatus < -- xs:string </pre>

Schema Component Representation

```

<xs:simpleType name="ChargeStatus">
  <xs:restriction base="xs:string">
    <xs:enumeration value="NA"/>
    <xs:enumeration value="I"/>
    <xs:enumeration value="P"/>
    <xs:enumeration value="PD"/>
  </xs:restriction>
</xs:simpleType>

```

Sample Post XML

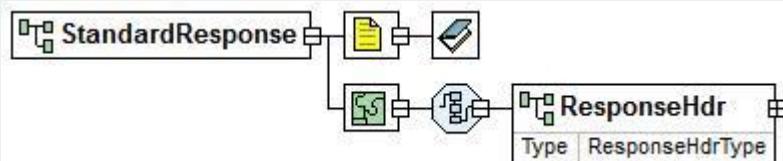
```

<?xml version="1.0"?>
<SendChargesRq xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns="http://fncinc.com/CHQ"
  xsi:schemaLocation="http://fncinc.com/CHQ">
  <Header>
    <SourceApp xmlns="http://fncinc.com/Integration.xsd">LOS</SourceApp>
    <TargetApp xmlns="http://fncinc.com/Integration.xsd">CHQ</TargetApp>
    <ApplInstance xmlns="http://fncinc.com/Integration.xsd">FNCINC</ApplInstance>
    <ApplInstanceLogin xmlns="http://fncinc.com/Integration.xsd">abcbank</ApplInstanceLogin>
    <ApplInstancePwd xmlns="http://fncinc.com/Integration.xsd">Password123!</ApplInstancePwd>
    <Timestamp xmlns="http://fncinc.com/Integration.xsd">2014-05-13T10:50:59.430</Timestamp>
    <MessageId xmlns="http://fncinc.com/Integration.xsd">adca50d4-8b85-4223-1111-
82a0213b5125</MessageId>
  </Header>
  <DocId>20140805-0149-1</DocId>
  <ChargeLineItems>
    <ChargeLineItem>
      <CustomerAdjustmentReason>DF</CustomerAdjustmentReason>
      <CustomerPrice>365.00</CustomerPrice>
      <CustomerChargeStatus>PD</CustomerChargeStatus>
      <CustomerPaidDate>2002-10-10T12:00:00-05:00</CustomerPaidDate>
      <CustomerInvoiceDate>2002-10-10T12:00:00-05:00</CustomerInvoiceDate>
      <VendorFee>300.00</VendorFee>
      <VendorChargeStatus>PD</VendorChargeStatus>
      <VendorAdjustmentReason>DF</VendorAdjustmentReason>
      <VendorPaidDate>2002-10-10T12:00:00-05:00</VendorPaidDate>
      <VendorInvoiceDate>2002-10-10T12:00:00-05:00</VendorInvoiceDate>
      <InvoiceNumber>5544332211</InvoiceNumber>
      <ChargeNo>00000000-0000-0000-0000-000000000000</ChargeNo>
    </ChargeLineItem>
  </ChargeLineItems>
</SendChargesRq>

```

:: Send Charges Response

Element: StandardResponse

Name	StandardResponse
Type	Locally-defined complex type
Nillable	no
Abstract	no
Documentation	The element sent for an simple response
Diagram	 <pre> classDiagram StandardResponse < -- ResponseHdrType StandardResponse < -- ResponseHdrType </pre>

XML Instance Representation

```

<StandardResponse>
  <ResponseHdr>ResponseHdrType</ResponseHdr>[1,1]
</StandardResponse>

```

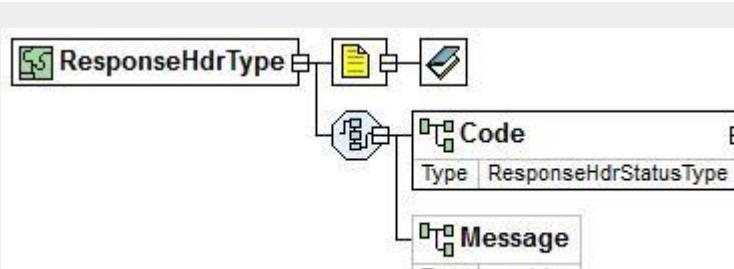
Schema Component Representation

```

<xs:element name="StandardResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="ResponseHdr" type="ResponseHdrType"/>
    <xs:sequence>
  </xs:complexType>
</xs:element>

```

Complex Type: ResponseHdrType

<i>Super-types:</i>	None
<i>Sub-types:</i>	None
Name	ResponseHdrType
Abstract	no
Documentation	Standard response header
Diagram	 <pre> classDiagram ResponseHdrType < -- ResponseHdrType ResponseHdrType < -- ResponseHdrStatusType ResponseHdrStatusType < -- Message </pre>

XML Instance Representation

```
<...>
<Code>ResponseHdrStatusType</Code> [1,1]
<Message>xs:string</Message> [0,1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ResponseHdrType">
<xs:sequence>
<xs:element name="Code" type="ResponseHdrStatusType"/>
<xs:element name="Message" type="xs:string" minOccurs="0"/>
</xs:sequence>
</xs:complexType>
```

Sample Response XML

```
<?xml version="1.0" encoding="utf-8"?>
<StandardResponse xsi:schemaLocation="http://fncinc.com/CHQ CMS.xsd" xmlns:in="http://fncinc.com/Integration.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
<ResponseHdr>
<Code>OK</Code>
<Message/>
</ResponseHdr>
</StandardResponse>
```

Send Dates Touchpoint

:: Send Dates Request

The Send Dates Touchpoint originates from CMS. The XML post will be triggered from CMS to the Client System (ordering system), when an order has a specific date updated. The list of date fields are found below.

Actors

CMS	This system is responsible for order management. Administrators, Processors, and Reviewers use this system to manage their workflow. In addition, Loan Officers may use this system to place orders and check the status of their orders.
------------	---

Client System	System responsible for data management and originating orders
----------------------	---

Preconditions – URL for Client system is completed in CMS

Post Conditions – Order updates sent from CMS and processed in Client System.

► Main Scenario

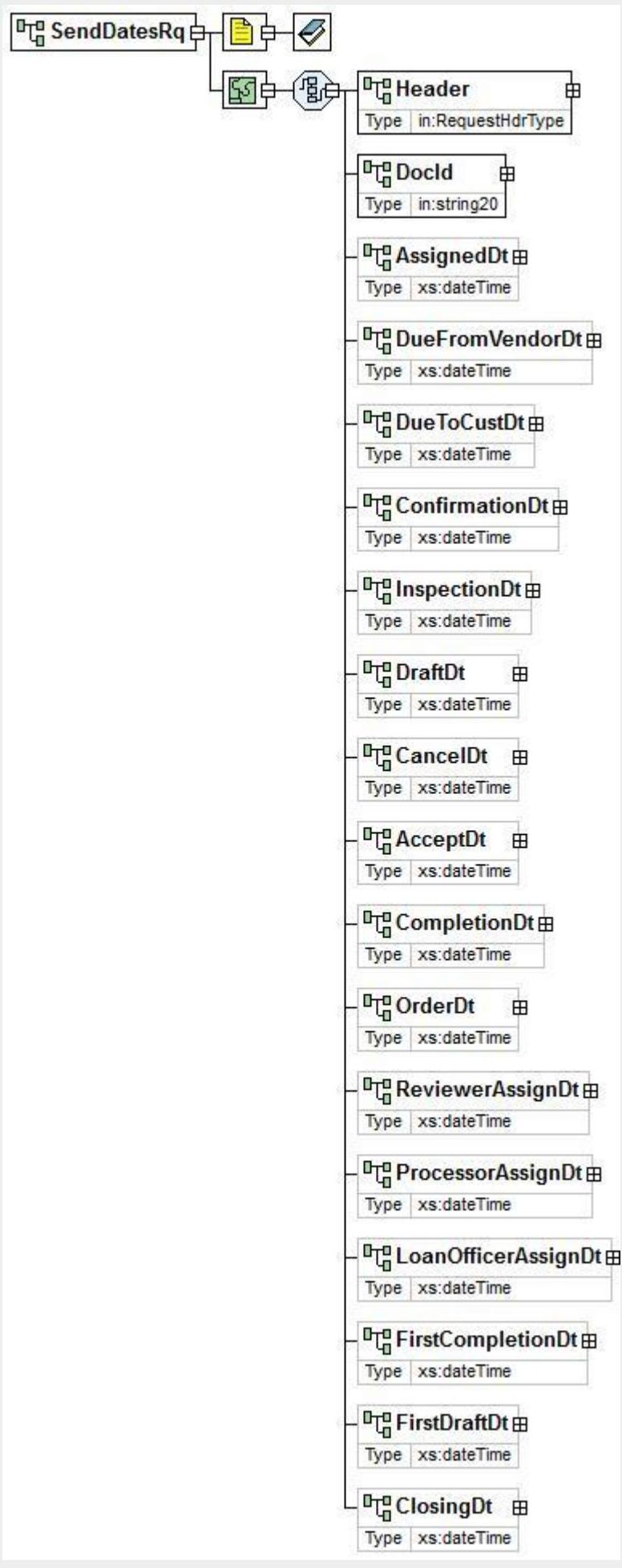
1. An order has a specific date updated.
2. CMS sends Send Dates Touchpoint to the Client System.
3. Client System receives XML and validates XML.
4. Client System sends response to communicate successful receipt of XML.
5. Client System updates order in its system with invoice information.

► Alternate Scenarios

1. Can't connect to LOS – System Error
2. LOS sends a failure acknowledgement – XML is malformed or missing required data elements.
3. LOS sends a failure acknowledgement – an application error occurred.
4. LOS sends a failure acknowledgement – a system error occurred.
5. XML validation fails – XML is malformed or missing required data elements.

Element: SendDatesRq

Name	SendDatesRq
Type	Locally-defined complex type
Nillable	no
Abstract	no
Documentation	<p>The SendDatesRq will contain the Date information for a doc. Below are the date fields that will be sent when and if they are updated. When a date is updated, we will send all fields that have a valid date.</p> <p>Assigned Date Due From Vendor Date Due To Customer Date Confirmation Date Inspection Date Draft Date Cancel Date Accept Date Completion Date Order Date Reviewer Assign Date Processor Assign Date Loan Officer Assign Date First Completion Date First Draft Date Loan Closing Date</p>

Diagram

XML Instance Representation

```

<SendDatesRq>
  <Header>in:RequestHdrType</Header>[1]
  <DocId>in:string20</DocId>[1]
  <AssignedDt>xs:dateTime</AssignedDt>[0..1]
  <DueFromVendorDt>xs:dateTime</DueFromVendorDt>[0..1]
  <DueToCustDt>xs:dateTime</DueToCustDt>[0..1]
  <ConfirmationDt>xs:dateTime</ConfirmationDt>[0..1]
  
```

```

<InspectionDt>xs:dateTime</InspectionDt>[0..1]
<DraftDt>xs:dateTime</DraftDt>[0..1]
<CancelDt>xs:dateTime</CancelDt>[0..1]
<AcceptDt>xs:dateTime</AcceptDt>[0..1]
<CompletionDt>xs:dateTime</CompletionDt>[0..1]
<OrderDt>xs:dateTime</OrderDt>[0..1]
<ReviewerAssignDt>xs:dateTime</ReviewerAssignDt>[0..1]
<ProcessorAssignDt>xs:dateTime</ProcessorAssignDt>[0..1]
<LoanOfficerAssignDt>xs:dateTime</LoanOfficerAssignDt>[0..1]
<FirstCompletionDt>xs:dateTime</FirstCompletionDt>[0..1]
<FirstDraftDt>xs:dateTime</FirstDraftDt>[0..1]
<ClosingDt>xs:dateTime</ClosingDt>[0..1]
</SendDatesRq>

```

Schema Component Representation

```

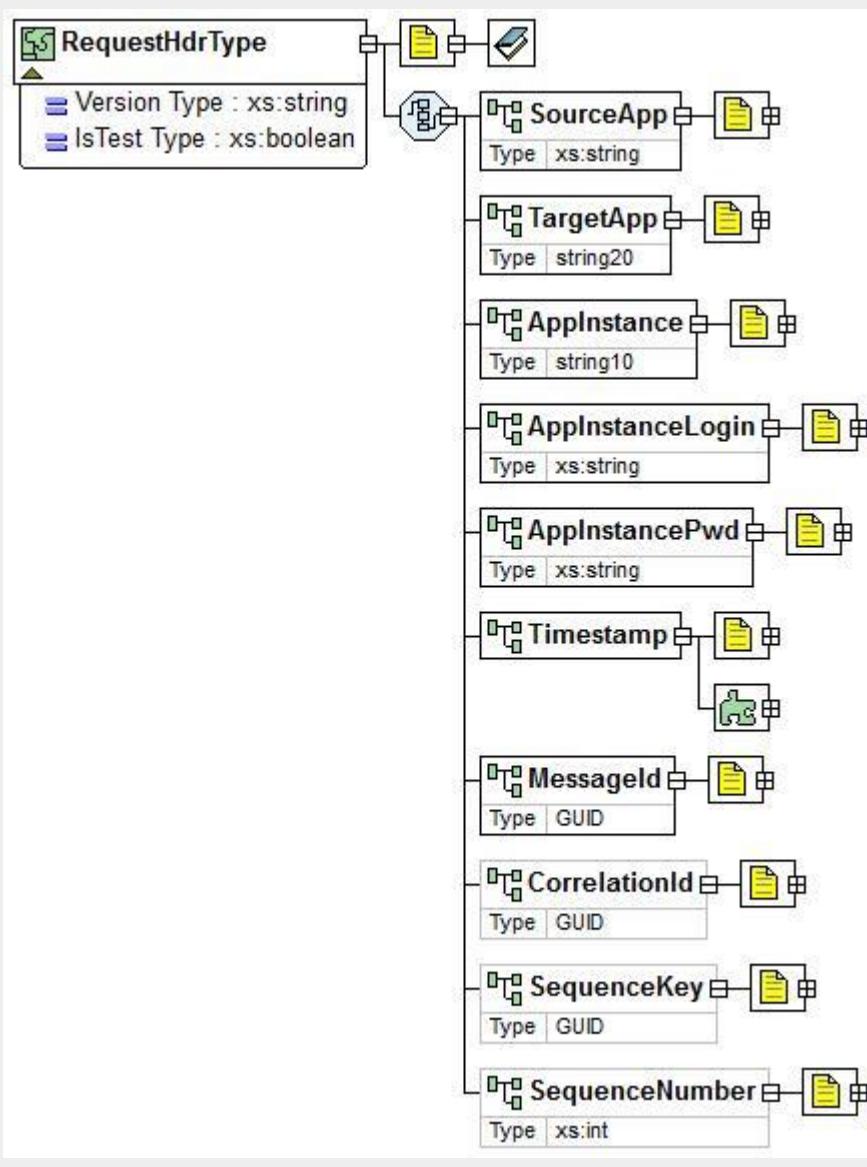
<xs:element name="SendDatesRq">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="Header" type="in:RequestHdrType"/>
      <xs:element name="DocId" type="in:string20" minOccurs="1"/>
      <xs:element name="AssignedDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="DueFromVendorDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="DueToCustDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="ConfirmationDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="InspectionDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="DraftDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="CancelDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="AcceptDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="CompletionDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="OrderDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="ReviewerAssignDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="ProcessorAssignDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="LoanOfficerAssignDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="FirstCompletionDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="FirstDraftDt" type="xs:dateTime" minOccurs="0"/>
      <xs:element name="ClosingDt" type="xs:dateTime" minOccurs="0"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

```

Complex Type: RequestHdrType

Super-types:	None
Sub-types:	None
Name	RequestHdrType
Abstract	no
Documentation	Standard request header

Diagram



XML Instance Representation

```

<...
  Version="1.0" IsTest="xs:boolean">
  <SourceApp> xs:string </SourceApp> [1,1]
  <TargetApp> string20 </TargetApp> [1,1]
  <ApplInstance> string10 </ApplInstance> [1,1]
  <ApplInstanceLogin> xs:string </ApplInstanceLogin> [1,1]
  <ApplInstancePwd> xs:string </ApplInstancePwd> [1,1]
  <Timestamp> xs:dateTime </Timestamp> [1,1]
  <MessageId> GUID </MessageId> [1,1]
  <CorrelationId> GUID </CorrelationId> [0,1]
  <SequenceKey> GUID </SequenceKey> [0,1]
  <SequenceNumber> xs:int </SequenceNumber> [0,1]
</...>
  
```

Schema Component Representation

```

<xs:complexType name="RequestHdrType">
  <xs:sequence>
    <xs:element name="SourceApp" type="xs:string"/>
    <xs:element name="TargetApp" type="string20"/>
    <xs:element name="ApplInstance" type="string10"/>
    <xs:element name="ApplInstanceLogin" type="xs:string"/>
    <xs:element name="ApplInstancePwd" type="xs:string"/>
    <xs:element name="Timestamp">
      <xs:simpleType>
        <xs:restriction base="xs:dateTime"/>
      </xs:simpleType>
    </xs:element>
    <xs:element name="MessageId" type="GUID"/>
    <xs:element name="CorrelationId" type="GUID" minOccurs="0"/>
    <xs:element name="SequenceKey" type="GUID" minOccurs="0"/>
    <xs:element name="SequenceNumber" type="xs:int" minOccurs="0"/>
  </xs:sequence>

```

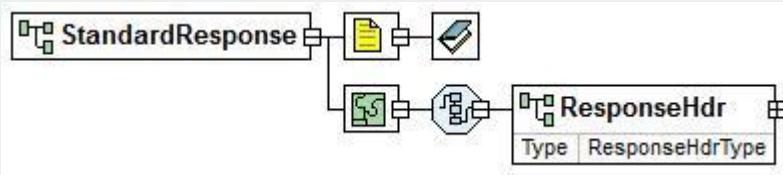
```
<xs:attribute name="Version" type="xs:string" fixed="1.0" use="optional"/>
<xs:attribute name="IsTest" type="xs:boolean" default="false" use="optional"/>
</xs:complexType>
```

Sample Post XML

```
<?xml version="1.0"?>
<SendDatesRq xmlns="http://fncinc.com/CHQ" xmlns="http://fncinc.com/Integration.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Header Version="1.0" IsTest="false">
    <SourceApp>string</SourceApp>
    <TargetApp>string</TargetApp>
    <AppInstance>string</AppInstance>
    <AppInstanceLogin>string</AppInstanceLogin>
    <AppInstancePwd>string</AppInstancePwd>
    <Timestamp>2002-10-10T12:00:00-05:00</Timestamp>
    <MessageId>00000000-0000-0000-0000-000000000000</MessageId>
    <CorrelationId>00000000-0000-0000-0000-000000000000</CorrelationId>
    <SequenceKey>00000000-0000-0000-0000-000000000000</SequenceKey>
    <SequenceNumber>2147483648</SequenceNumber>
  </Header>
  <DocId>string</DocId>
  <AssignedDt>2002-10-10T12:00:00-05:00</AssignedDt>
  <DueFromVendorDt>2002-10-10T12:00:00-05:00</DueFromVendorDt>
  <DueToCustDt>2002-10-10T12:00:00-05:00</DueToCustDt>
  <ConfirmationDt>2002-10-10T12:00:00-05:00</ConfirmationDt>
  <InspectionDt>2002-10-10T12:00:00-05:00</InspectionDt>
  <DraftDt>2002-10-10T12:00:00-05:00</DraftDt>
  <CancelDt>2002-10-10T12:00:00-05:00</CancelDt>
  <AcceptDt>2002-10-10T12:00:00-05:00</AcceptDt>
  <CompletionDt>2002-10-10T12:00:00-05:00</CompletionDt>
  <OrderDt>2002-10-10T12:00:00-05:00</OrderDt>
  <ReviewerAssignDt>2002-10-10T12:00:00-05:00</ReviewerAssignDt>
  <ProcessorAssignDt>2002-10-10T12:00:00-05:00</ProcessorAssignDt>
  <LoanOfficerAssignDt>2002-10-10T12:00:00-05:00</LoanOfficerAssignDt>
  <FirstCompletionDt>2002-10-10T12:00:00-05:00</FirstCompletionDt>
  <FirstDraftDt>2002-10-10T12:00:00-05:00</FirstDraftDt>
  <ClosingDt>2002-10-10T12:00:00-05:00</ClosingDt>
</SendDatesRq>
```

:: Send Dates Response

Element: StandardResponse

Name	StandardResponse
Type	Locally-defined complex type
<u>Nillable</u>	no
<u>Abstract</u>	no
Documentation	The element sent for an simple response
Diagram	 <pre> classDiagram class StandardResponse class ResponseHdr class ResponseHdrType StandardResponse "1..1" -- "1..1" ResponseHdr : StandardResponse "1..1" -- "1..1" ResponseHdrType : ResponseHdr "1..1" -- "1..1" ResponseHdrType : </pre>

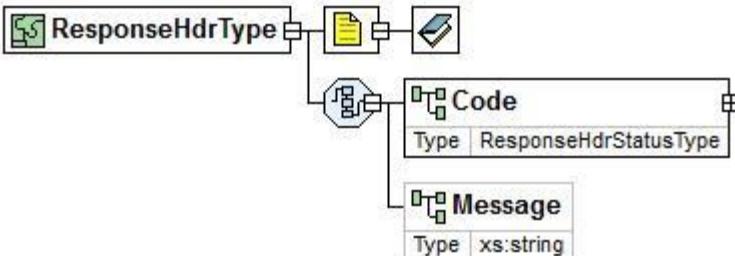
XML Instance Representation

```
<StandardResponse>
  <ResponseHdr>ResponseHdrType</ResponseHdr>[1,1]
</StandardResponse>
```

Schema Component Representation

```
<xs:element name="StandardResponse">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="ResponseHdr" type="ResponseHdrType"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>
```

Complex Type: ResponseHdrType

<i>Super-types:</i>	None
<i>Sub-types:</i>	None
Name	ResponseHdrType
Abstract	no
Documentation	Standard response header
Diagram	 <pre> classDiagram class ResponseHdrType { <<ResponseHdrStatusType>> <<xs:string>> } class ResponseHdrStatusType { <<Code>> <<Message>> } ResponseHdrType --> ResponseHdrStatusType ResponseHdrStatusType < -- ResponseHdrType ResponseHdrStatusType < -- xs:string </pre>

XML Instance Representation

```
<...>
<Code>ResponseHdrStatusType</Code> [1,1]
<Message>xs:string</Message> [0,1]
</...>
```

Schema Component Representation

```
<xs:complexType name="ResponseHdrType">
  <xs:sequence>
    <xs:element name="Code" type="ResponseHdrStatusType"/>
    <xs:element name="Message" type="xs:string" minOccurs="0"/>
  </xs:sequence>
</xs:complexType>
```

Sample Response XML

```
<?xml version="1.0" encoding="utf-8"?>
<StandardResponse xsi:schemaLocation="http://fncinc.com/CHQ CMS.xsd" xmlns:in="http://fncinc.com/Integration.xsd"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <ResponseHdr>
    <Code>OK</Code>
    <Message/>
  </ResponseHdr>
</StandardResponse>
```