

ROME

QUERY DETAIL RECORD SPECIFICATIONS

Prepared by
Sansay Engineering

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SANSAY INC., 4350 La Jolla Village Drive Suite 888, San Diego, CA 92122

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Revision History

Date	Descriptions of Change
07-Dec-2010	Initial version of Sansay Query Detail Record Specification.
10-Oct-2011	Added JType and CarrierID.
10-Oct-2011	Removed service port in response; removed trunk alias field; changed answer date/time to query answer delay.
11-Jun-2012	Expand record type to accommodate LNP. Added fields for LNP fields.
31-Jul-2012	Added fields: route table group, route table, routed digits, translated DNIS.
7-Sep-2012	Removed the translated DNIS field
11-Sep-2012	Added check marks to specify applicable fields for each system type (HRS or NLS).
12-Sep-2012	Use NLS RN field (dual purpose) for HRS RN received.
10-Jul-2013	Added TranslatedDNIS field for HRS.
6-Jan-2014	Added MPR related fields: rate table id, customer rate info, vendor rate info, fail status due to PPA.
18-Feb-2014	Changed the Jurisdiction Type field from 4 characters to 6 characters.
18-Feb-2014	Added Customer Percentage of Cost, and rate unit.
21-Apr-2014	Added List of Vendor Rate Tables, and routing mode. Rearrange the vendor information.
28-Apr-2014	Added Rate Group ID
5-May-2014	Removed Rate Unit. Updated the Route Response field.
11-Aug-2015	Added fields for LNP International.
21-May-2019	Designated versions for different product type with the letter prefix. 1.4 for HRS, L1.4 for NLS, N1.4 for NSS-A/V. Added parameters for the HRS DMT and parameters for the NSS-A and NSS-V and the STI file for STIR/SHAKEN Identity Header.
19-Jan-2021	Added Origination Query Mode(STI-AS/STI-VS) in version N1.4 Added Originating Trunk ID in version N1.4 Removed Algorithm Used in version N1.4 Added reserved fields to match the software for the purpose of completing the FOT.
8-Nov-2021	Delegate CA support (ATIS-1000092) Added Delegate CA Indicator. Added BASE PASSPorT Header, BASE PASSPorT Payload, BASE PASSPorT STI Identity Header for STI-File format for NSS-A.
5-Jun-2023	Support of "div" PASSporT (ATIS-1000085.v002) Added DiversionHeaderNum. STI-File format for NSS-V.
24-Aug-2023	STI-File to follow JSON format properly, with enclosing brackets and comma as delimiter between records.
7-Nov-2023	RCD support (ATI-1000094)

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1 Scope

This document defines the Sansay Query Detail Record (QDR) file format for the ROME platform and the file retrieval process. The ROME platform includes different types of products: HRS and NLS.

QDRs are ASCII records of the queries from the SBCs to the ROME platform, and the responses from the ROME platform to the SBCs. Queries can be route lookup requests as well as LNP lookup requests.

A QDR record consists of the header with unique identification of the record, and the body containing information of the query.

2 QDR Format

QDR Header

Field Number	Parameter	Max ASCII Characters	Description	Notes
1	Record Sequence Number	9	Unique identification of this record	
2	Version Number	5	Format version number of records to follow	See Version Note in the QDR Body Section.
3	Record Type	1	Type of QDR being generated. R=NORMAL A=AUDIT	
	Record Data	Variable	Parameters as defined in the body.	

- QDR fields without any data will be blank.
- The character semicolon (;) is used as the field delimiter to separate the fields of a QDR record.
- For the list of route responses, if the query mode is TID, the entry can be in the form: TrunkID separated by a comma. For example: 437,12.
- If the query mode is IP, the response can be IP addresses, separated by commas.
- Each QDR record in the file is separated by line feed “\n”.

QDR Body for HRS/NLS

Checkmarks are used to indicate the inclusion of the parameter in the particular product QDR records.

Starting from version 1.4, QDR format for each product type will be designated with a letter prefix. None for HRS, L for NLS and N for NSS-A/V.

For example:

- Version 1.4 applies to HRS.
- Version L1.4 applies to NLS.
- Version N1.4 applies to NSS-A/V

The version string is “V1.4”, “L1.4” or “N1.4” depending on the product type.

For clarify, a letter “N” in the Included In Version column indicates that the parameter is part of the NSS-A/V QDR.

Field Number	Parameter	Max ASCII Characters	Description	HRS	NLS	Included in Version
4	SessionID	32	Unique ID assigned to the query by the ROME system.	✓	✓	1.1
5	Start Date Time	32	Date and Time when the query entered the system in MySQL format. This is the local date and time.	✓	✓	
6	Duration in msec	6	Answer time in milliseconds	✓	✓	
7	Minutes West of Greenwich Mean Time (String)	4	Used to calculate the absolute time (0-1440).	✓	✓	
8	Origination Query Mode (String)	10	Mode of query: “DNIS”, “IP”, “TID” or “LNP”	✓	✓	
9	Origination VoIP Protocol (String)	6	“SIP” or “ENUM”	✓	✓	
10	Carrier ID	6	Carrier Identification (1-99999) or NA	✓		
11	Origination Source Host Name	128	FQDN or IP address for source SBC	✓	✓	
12	Origination Trunk ID String	6	Trunk ID of the origination SBC	✓		
13	Origination Service Port	6	Service Port Number of the source SBC	✓	✓	
14	Jurisdiction Type	6	Ver 1.1 to Ver 1.1a: Jurisdiction Type used in the query (0..255) Ver 1.1b: Jurisdiction Type used in the query (0-99999)	✓		
15	Origination Source Number (see ANI input selection)	41	‘0-9’,+, “none”	✓	✓	
16	Input Selection (ANI input selection)	10	‘PCHARGEINFO’: P-Charge-Info was used ‘RPID’: Remote Party Identification was used ‘PAI’: P-Asserted-Identity was used ‘JIP’: Jurisdiction Information Parameter was used ‘ANI’: ANI was used	✓		
17	Origination Destination Number (DNIS)	41	‘0-9’,+, “none”	✓	✓	
18	Route Query - RN Routing	4	‘RN’: RN was used ‘DNIS’: DNIS was used	✓		

19	Origination Query ID	128	Unique ID for the query from the SBC	✓	✓	
20	Release Cause Description	64	Release cause string	✓	✓	
21	Release Cause Value	4	Value of release cause (decimal)	✓	✓	
22	Route Response – Total Routes	4	Number of alternate routes (decimal). See N in Final Routes field.	✓		
23	Route Response – Routes	N(32)	Either Trunk ID -or- FQDN/IP address. See Total Routes field. Separated by commas, or NA for other query mode. [TrunkID[,]] [IPAddress[,]]	✓		(in version 1.2 when routing mode is B)
24	Route Response – Vendor, Vendor Rate Table ID, Rate, Number of routes, Trunk IDs	N(512) N <=32	Version 1.2 (VendorID, VendorRateTableID, VendorRate, NumberOfTrunks, Trunk1, Trunk2, ..., Trunk32) Max number of trunks is 32. Either Trunk ID -or- FQDN/IP address. See Total Routes field. Separated by commas, or NA for other query mode. If routing mode is not MPR, then Rate is NA.	✓		1.2
25	For HRS – RN received For NLS – RN Response	41	Routing Number '0-9'	✓	✓ Not used in 1.3 if International	
26	LNP Response - SPID	41	Service Provider Identification '0-9'		✓ Not used in 1.3 if International	
27	Route Table Group Id	6	Route Table Group Id (1-99999) – only for TID,IP,DNIS mode	✓		
28	Route Table Id	6	Route Table Id (1-99999) – only for TID,IP,DNIS mode	✓		
29	Routed Digits	41	Number matched in the query lookup	✓		
30	Translated DNIS	41	Translated DNIS number	✓		
31	Epoch Time	16	Number of seconds elapsed since 1970-01-01	✓	✓	
32	Routing Mode	1	Version 1.2 "B", "P", "M"	✓		1.2
33	Customer Rate Table Id	6	Version 1.2 Rate Table Id (1-99999)	✓		

34	Customer Rate Info	10	Version 1.2	✓		
35	Customer Percentage of Cost	3	Version 1.2 Percentage of Cost in percentage (0-200)	✓		
36	Rate Group ID	6	Version 1.2 Rate Group Id (1-99999)	✓		
37	Fail due to Profit Percentage (No Profitable Route)	1	Version 1.2 "Y" or "N"	✓		
38	LNP Country	30	Version 1.3 Country name Blank = US		✓	1.3
39	Ported DNIS	41	Version 1.3 LNP Ported DNIS Number for International LNP		✓	
40	IsMobile	1	Version 1.3 "Y" or "N"		✓	
41	Translated ANI Action	1	A=All, M=Match, ?=Passthrough, ??=Prepend	✓		1.4
42	Translated ANI Number	40	'0-9','+', "none"	✓		
43	Translated DNIS Action	1	A=All, M=Match, ?=Passthrough, ??=Prepend, ??=NoLNP	✓		
44	Translated DNIS Number	40	'0-9','+', "none"	✓		

QDR Body for NSS-A/V (Version N1.5)

New fields MUST BE added to the end of the list.

Field Number	Parameter	Max ASCII Characters	Description	NSS-A/V qdr file	NSS-A/V sti file (JSON)	Included in Version
4	SessionID	32	Unique ID assigned to the query by the ROME system.	✓	✓	N1.4
5	Start Date Time	32	Date and Time when the query entered the system in MySQL format. This is the local date and time.	✓	✓	
6	Process time in msec	6	Process time in milliseconds	✓		
7	Minutes West of Greenwich Mean Time (String)	4	Used to calculate the absolute time (0-1440).	✓		
8	Origination Query Mode (String)	6	"STI-AS" or "STI-VS"	✓		Added in version N1.4
9	Origination Query Protocol (String)	6	"SIP" or "REST"	✓		
10	Origination Source Host Name	128	FQDN or IP address for source SBC	✓		
11	Origination Trunk ID String	6	Trunk ID of the origination SBC	✓		Added in version N1.4
12	Origination Service Port	6	Service Port Number of the source SBC	✓		
13	Reserved	1	Reserved A	✓		Added in version N1.4
14	Origination Source Number (see ANI input selection)	41	'0-9','+', "none"	✓		
15	Input Selection (ANI input selection)	10	'PCHARGEINFO': P-Charge-Info was used 'RPID': Remote Party Identification was used 'PAI': P-Asserted-Identity was used 'JIP': Jurisdiction Information Parameter was used 'ANI': ANI was used	✓		
16	Origination Destination Number (DNIS)	41	'0-9','+', "none"	✓		

17	Reserved	1	Reserved B	✓		Added in version N1.4
18	Origination Query ID	128	Unique ID for the query from the SBC	✓		
19	Release Cause Description	32	Release cause string	✓		
20	Release Cause Value	4	Value of release cause (decimal)	✓		
21	Epoch Time	16	Number of seconds elapsed since 1970-01-01	✓		
22	Reserved (used to be Algorithm Used)	1	Reserved C	✓		Added in version N1.4
23	Reserved	1	Reserved D	✓		Added in version N1.4
24	Reserved	1	Reserved E	✓		Added in version N1.4
25	Reserved	1	Reserved F	✓		Added in version N1.4
26	Reserved	1	Reserved G	✓		Added in version N1.4
27	Reserved	1	Reserved H	✓		Added in version N1.4
28	Reserved	1	Reserved I	✓		Added in version N1.4
22	Status	20	authstat= [0 1] Or verstat=TN-Validation-Success(0), No-TN-Validation(1), TN-Validation-Failed(2)	✓		
23	Delegate CA Indicator	1	" (null): not applicable 'B': signed BASE PASSporT 'V': verified BASE PASSporT 'R': received BASE PASSporT, parent CA re-signed successfully with SHAKEN PASSporT 'S': received BASE PASSporT, verified failed, but signed with SHAKEN PASSporT regardless 'F': received BASE PASSporT, verified failed, and sign with SHAKEN PASSporT failed also	✓		Added in N1.5

24	Diversion Header Number	1	0: not applicable 1-2: number of SIP Diversion header received (3 and above is currently not supported)	✓		Added in N1.5rc1
25	RCD ProfileID	6	STI-AS (empty): if no RCD profile id 1-999999: RCD profile id STI-VS (empty): if no RCD PASSporT present 'R': if RCD identity header present 'S': if RCD PASSporT is in SHAKEN	✓	✓	N1.7
26	RCD nam	128	STI-VS only	✓	✓	N1.7

STI-File format for NSS-A/V

Order in the STI file is not important. The key names must be unique.

<i>Parameter</i>	<i>Max ASCII Characters</i>	<i>Description (JSON Format)</i>	<i>NSS-A/V qdr file</i>	<i>NSS-A/V sti file</i>	<i>Included in Version</i>
Incoming BASE PASSporT Header	1024	alg, type, x5u claims *(if Delegate CA re-signing is successful, there will be both "Incoming BASE PASSporT" and "Signed SHAKEN PASSporT")		NSS-A	N1.5
Incoming BASE PASSporT Payload	1024	dest tn, iat, orig tn, origid claims *(if Delegate CA re-signing is successful, there will be both "Incoming BASE PASSporT" and "Signed SHAKEN PASSporT")		NSS-A	N1.5
Incoming BASE PASSporT STI Identity Header	2048	base64url string, alg *(if Delegate CA re-signing is successful, there will be both "Incoming BASE PASSporT" and "Signed SHAKEN PASSporT")		NSS-A	N1.5
(prefix by "Incoming" or "Signed", then "BASE" or "SHAKEN") PASSporT Header	1024	alg, ppt, typ, x5u claims		✓	N1.5

(prefix by "Incoming" or "Signed", then "BASE" or "SHAKEN") PASSPorT Payload	1024	attest, dest tn, iat, orig tn, origid claims		✓	N1.5
(prefix by "Incoming" or "Signed", then "BASE" or "SHAKEN") STI Identity Header	2048	base64url string, alg, ppt claims		✓	N1.5
Status for Verification	20	"verstat"="TN-Validation-Passed" "No-TN-Validation" "TN-Validation-Failed"		✓	N1.4
Verification Status	20	Response of the verification process		✓	N1.4
Reason Header	40	"SIP;cause=302;text=\"no-fraud-detected\""		✓	N1.4

Sample QDR records

Route Lookup Queries - TID mode

```
000092810;V1.1;R;181-1071459514@192.188.0.28;Mon Feb 21 11:38:34
2013;10;480;TID;SIP;102;192.188.0.38;9101;101;3;4152432345;PAI;19093423452;DNIS;
47642429-694@10.10.1.162;
Redirect;0300;6;120,1125,890,821,132,1126;;;4;9999;1909342;1361446714;
```

```
000092810;V1.2;R;181-1071459514@192.188.0.28;Mon Feb 21 11:38:34
2013;10;480;TID;SIP;102;192.188.0.38;9101;101;3;4152432345;PAI;19093423452;DNIS;
47642429-694@10.10.1.162;
Redirect;0300;6;(1201,4,0.0105,2,120,1125),(10111,5,0.00134,4,890,821,132,1126);;;4;9999;1909
342;1361446714;P;679;0.00305;80;105;N;
```

```
000092814;V1.1;R;181-1071459514@192.188.0.28;Mon Feb 21 11:38:34
2013;10;480;TID;SIP;102;192.188.0.38;9101;101;3;4152432345;ANI;19093423452;RN;
f0faff54-2e6c-11d8-8c4bbd4d562c2265;Redirect;300;3;821,132,1126;;;4;9999;1909342;1361446714;
```

```
000192814;V1.2;R;181-1071459514@192.188.0.28;Mon Feb 21 11:38:34
2013;10;480;TID;SIP;102;192.188.0.38;9101;101;3;4152432345;ANI;19093423452;RN;
f0faff54-2e6c-11d8-8c4bbd4d562c2265;Redirect;300;3;
(1201,4001,0.0105,2,120,1125),(10111,5001,0.00134,1,890);;;
4;9999;1909342;1361446714;M;59;100000;0.01;76;4563;N;
```



```

BVf8WFSuPjTSSfGg-AfbZl6DabsTxbzfx3A6ks3Mabne00cf9-nJIym7b9EoY66VcGW4wymWoK4R1kG_WS2Im5Vws
0fbzCBEPd4-o25v9_Y5Midal4yvJRAsG6WEDjgF0BRdC109RizzgY1EEkJACqQSWGFHQ1_Y57UhrQPJN_rTG40RvyF
9u6-3EYHNTp4UY-VbinWp7EPPuIOq_qIUaCJpPW6cDqd76ni_GZAmnRqQubzF6XPZFko7UM3EyR19XrmrymZ3HCxUr
5MD5MmL8prjSqv1x0eaNQ;info=<https://ca-auth1.sansay.com/sansay.crt>;alg=RS256;ppt=\shaken
\"

}

# Example for Delegate CA where incoming is BASE PASSporT and re-signed with SHAKEN PASSporT
{
  "sequence-num": "000000017",
  "version": "N1.5",
  "record-type": "R",
  "session-id": "0-1",
  "date": "2021-11-10 04:34:49",
  "incoming-base-passport-header":
  {"alg":"ES256","typ":"passport","x5u":"https://khcr.sansay.com/VOIP_ENTITY_TEST"},
  "incoming-base-passport-payload":
  {"dest":{"tn":["1542510000"]},"iat":1636518889,"orig":{"tn":"18053902823"}},
  "incoming-base-passport-identity-header":
  "eyJhbGciOiJFUzI1NiIsInR5cCI6InBhc3Nwb3J0IiwieDV1IjoiaHR0cHM6Ly9raGNYLnNhbnNheS5jb20vVk9J
  UF9FTlRJVFlfVEVTVVCJ9.eyJkZXN0IjpbInR5cCI6InBhc3Nwb3J0IiwieDV1IjoiaHR0cHM6Ly9raGNYLnNhbnNheS5jb20vVk9J
  aWciOmsidG4iOiIxODA1MzkwMjgyMyJ9fQ.oanqKKVwUj6xpYRX9wQ5vTHBeGD4pT-dJP5EwrDarxh09WLMp5HBrM
  UKn8MN3r3sg52AMZA-RQbJiLkT1HMSBA;info=<https://khcr.sansay.com/VOIP_ENTITY_TEST>;alg=ES25
  6",
  "signed-shaken-passport-header":
  {"alg":"ES256","ppt":"shaken","typ":"passport","x5u":"https://khcr.sansay.com/op2.crt"},
  "signed-shaken-passport-payload":
  {"attest":"A","dest":{"tn":["1542510000"]},"iat":1636518889,"orig":{"tn":"18053902823"},
  "origid":"8a5dd04c-41df-11ec-b201-c1c1bfdc8888"},
  "signed-shaken-identity-header":
  "eyJhbGciOiJFUzI1NiIsInBwdCI6InNoYWt1biIsInR5cCI6InBhc3Nwb3J0IiwieDV1IjoiaHR0cHM6Ly9raGNY
  LnNhbnNheS5jb20vb3AyLmNydCJ9.eyJhdHRlc3QiOiJBIiwieGVzdCI6eyJ0biI6WyIxNTQyNTUwMDAwMjdfSwi
  aWFOIjoxNjM2NTE4ODg5LzJvcmluIjpbInR5cCI6InBhc3Nwb3J0IiwieDV1IjoiaHR0cHM6Ly9raGNYLnNhbnNheS5jb20vVk9J
  i0xMwVjLWlWYmDEtYzFjMWJmZGM4ODg4In0.pr2bjKGJGjTrUJSnkC5JLCP4U-ouIk03WPq12_NQA1TSo34ShTBStl
  B61izK3FrwwCQGAmiFLFP79DH9KC1QuQ;info=<https://khcr.sansay.com/op2.crt>;alg=ES256;ppt=\s
  haken\"

}

{
  "sequence-num": "117408960",
  "version": "N1.4",
  "record-type": "R",
  "session-id": "4-277",
  "date": "2020-12-24 06:48:59",
  "passport-header":
  {"alg":"ES256","ppt":"shaken","typ":"passport","x5u":"https://cr.sansay.com/r2_es256_1127.
  crt"},
  "passport-payload":
  {"attest":"A","dest":{"tn":["1777"]},"iat":1608792539,"orig":
  {"tn":"166223"},"origid":"564dd3e6-2d18-f79c-343c-2aa5bf476e81"},
  "identity-header":
  "eyJhbGciOiJFUzI1NiIsInBwdCI6InNoYWt1biIsInR5cCI6InBhc3Nwb3J0IiwieDV1IjoiaHR0cHM6Ly9jc
  i5zYW5zYXkuY29tL3IyX2VzMjU2XzExMjcuY3J0In0.eyJhdHRlc3QiOiJBIiwieGVzdCI6eyJ0biI6WyIxNTQyNTUwMDAwMjdfSwi
  3I119LCJpYXQiOiE2MDg3OTI1MzksIm9yaWciOmsidG4iOiIxNjYyMjM1fSwib3JpZ2lkIjoiaHR0cHM6Ly9jcjU2Y29tL3IyX2Vz
  mQxOC1mNzljLTMOM2MmFhNWJmNdc2ZTgxIn0.pFuBX00fsqR3VkBWyRndVQNmtp59Khna4lvXk00v2yUY9LV
  epmKABVzj0SnozEM7YsI3tKzoH-TsB0uV1Bfkmw;info=<https://cr.sansay.com/r2_es256_1127.crt>
  ;alg=ES256;ppt=\shaken\",
  "verstat": "TN-Validation-Passed",
  "verify-response": "SVMP_OK",
  "reason-header": "SIP;cause=302;text=\no-fraud-detected\"

}

```

```

# Example for DIV PASSporT verification where incoming is SHAKEN+DIV+DIV
{
  "sequence-num": "000000012",
  "version": "N1.5",
  "record-type": "R",
  "session-id": "0-11",
  "date": "2023-05-22 07:43:40",
  "incoming-shaken-passport-header":
{"alg": "ES256", "ppt": "shaken", "typ": "passport", "x5u": "https://cr.sansay.com/997T/order/218_997T_2"},
  "incoming-shaken-passport-payload":
{"attest": "C", "dest": {"tn": ["13334567890"]}, "iat": 1684741418, "orig": {"tn": "12224567890"}, "origid": "5d1b996e-f874-11ed-970a-c1c1bfcd8888"},
  "incoming-shaken-identity-header":
"eyJhbGciOiJFUzI1NiIsInBwdCI6ImRpdIIsInR5cCI6ImBhc3Nwb3J0IiwieDV1IjoiaHR0cHM6Ly9jci5zYW5zYXkuY29tLzlk5N1Qvb3JkZXIvMjE4Xzk5N1RfMiJ9.eyJhdHRlc3QiOiJDIiwieGVzdCI6eyJ0biI6WyIxMzMzNDU2Nzg5MCJdfSwiaWF0IjoxNjg0NzQxNDE4LjVjcm1nIjpw7InRuIjoimTIyMjQ1Njc4OTAifSwib3JpZ2lkIjoiaWQxYjk5NmUtZjg3NC0xMmVwLk3MG5tYzFjMmJmZGM4ODg4In0.R_V8Zi6n1ZM061pyqc4UC9asPYcPmjhjCLOo5e_p7aJ-wkMu4By0mK4ZzYYuC5VdmWI3yTXgFbJDPHu1PKvB7Q;info=<https://cr.sansay.com/997T/order/218_997T_2>;alg=ES256;ppt=\shaken\",
  "incoming-div-passport-header":
{"alg": "ES256", "ppt": "div", "typ": "passport", "x5u": "https://cr.sansay.com/997T/order/218_997T_2"},
  "incoming-div-passport-payload":
{"dest": {"tn": ["14444567890"]}, "div": {"tn": "13334567890"}, "iat": 1684741418, "orig": {"tn": "12224567890"}},
  "incoming-div-identity-header":
"eyJhbGciOiJFUzI1NiIsInBwdCI6ImRpdIIsInR5cCI6ImBhc3Nwb3J0IiwieDV1IjoiaHR0cHM6Ly9jci5zYW5zYXkuY29tLzlk5N1Qvb3JkZXIvMjE4Xzk5N1RfMiJ9.eyJkZXNOIjpw7InRuIjpbIjE0NDQ0NTY3ODkwI119LCJkaXYiOmsidG4iOiIxMzMzNDU2Nzg5MCJ9Lj9kLjYXQiOjE2ODQ3NDE0MTgsIm9yaWciOmsidG4iOiIxMjIyNDU2Nzg5MCJ9fQ.J3oz4gfwP1n72MVvo30R89QtG1Ev-Zopv5_R20uXHbkz6_bCBRP6bn1LtMCqjNE6bdXf-sVw2pO_oAMqyMm1-A;info=<https://cr.sansay.com/997T/order/218_997T_2>;alg=ES256;ppt=\div\",
  "incoming-div-passport-header-2":
{"alg": "ES256", "ppt": "div", "typ": "passport", "x5u": "https://cr.sansay.com/997T/order/218_997T_2"},
  "incoming-div-passport-payload-2":
{"dest": {"tn": ["15554567890"]}, "div": {"tn": "14444567890"}, "iat": 1684741418, "orig": {"tn": "12224567890"}},
  "incoming-div-identity-header-2":
"eyJhbGciOiJFUzI1NiIsInBwdCI6ImRpdIIsInR5cCI6ImBhc3Nwb3J0IiwieDV1IjoiaHR0cHM6Ly9jci5zYW5zYXkuY29tLzlk5N1Qvb3JkZXIvMjE4Xzk5N1RfMiJ9.eyJkZXNOIjpw7InRuIjpbIjE1NTU0NTY3ODkwI119LCJkaXYiOmsidG4iOiIxNDQ0NDU2Nzg5MCJ9Lj9kLjYXQiOjE2ODQ3NDE0MTgsIm9yaWciOmsidG4iOiIxMjIyNDU2Nzg5MCJ9fQ.z56eRWAlgtvwn8SkyGK7X0q-uTzuG6DA7rAsXH6cvs6N4dvQ0tScfFIFcxV7PcH_HLRyc7DyUId0xVJkf1dTg;info=<https://cr.sansay.com/997T/order/218_997T_2>;alg=ES256;ppt=\div\",
  "verstat": "TN-Validation-Passed",
  "verify-response": "SVMP_OK",
  "reason-header": "SIP;cause=302;text=\no-fraud-detected\"
}

```

3 QDR File Storage/Retrieval

File Storage Policy

By default, all QDR files will be kept on the system for at least 360 hours (15 days). QDR files which are older than 360 hours will be deleted by the ROME system automatically in order to save disk space. The QDR file is generated in a configured time interval. The time interval can be configured from 60 seconds to 99,999 seconds.

File Naming Convention

File name is assembled using the format YYYYMMDD-HHmm-BeginQDRSeq-EndQDRSeq.xxx where:

- YYYY is the Year: 4 digit long
- MM and DD are the Month and Date: 2 digit each
- HHmm are the Hour and Minute fields: 2-digit each. The Hour/Minute field is always of 24-hour format, which ranges from 00 through 23.
- QDRSeq is 9-digit long. BeginQDRSeq is the sequence number of the first query. EndQDRSeq is the sequence number of the last query within this file.
- The .xxx suffix/extension indicates the file was completed (qdr). The working QDR file will be named qdr.tmp, which has the most current QDRs before the qdr file interval expired.

For Phase 1.4 NSS-A/NSS-B QDR records: The .xxx suffix/extension is (sti). The working QDR file will be named sti.tmp.

For example, the QDR file 20130227-0515-71001-80000.qdr indicates the file was created on 27-Feb-2013 at 5:15AM and contains the QDR records seq # from 71,001 to 80,000. The QDRSeq is a 9 digits number where it is wrapped around when the value hit 999,999,999. Integer fields without data will be set for 0; Non-integer fields which do not have data will simply be left empty or with string "NA". The character semi-colon (;) is used as the field delimiter to separate the fields of a QDR record.

File Retrieval Procedure

QDR files can be retrieved using the SCP (secure file copy) procedure. The SCP procedure requires a defined user login name with password. The QDR user name and password can be obtained through Web GUI via system administrator. Following is a simple procedure for retrieving QDR files from the ROME system:

- Obtain the IP address or the host name of the ROME system.
- Open an SCP(or ftp) session using one of the following commands:

```
SCP user@<IP address>:/QDR/20130227* .qdr
```

to get all QDR files created on 02/27/2013.