Guidance for Creation of an NHS 111 Repeat Caller Query

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**Intended audience:**

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|  |
| NHS 111 system developers |

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**Document Status:**

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On receipt of a new issue, please destroy all previous issues (unless a specified earlier issue is base-lined for use throughout the programme).

**Related Documents:**

These documents have been referenced in this document and will provide additional information.

None

**Glossary of Terms used in this Document:**

|  |  |  |
| --- | --- | --- |
| Term | Acronym | Definition |
|  |  |  |
| Participation |  | The involvement of a role in an act |
| Role |  | A responsibility or part played by an entity |
|  | DCE UUID | Distributed Computing Environment Universally Unique Identifier - is an identifier standard used in software construction |
|  | XML | Extensible Markup Language - is a general-purpose specification for creating custom markup languages |
| DMS |  | Domain Message Specification (sometimes called a pack) is the message specification(s) offered by Connecting for Health for a domain (such as NHS 111) |
| PDS |  | Patient Demographic Service – the NHS patient database |
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# Introduction

This document provides guidance for creating an NHS 111 Repeat Caller Query message. The document includes the information that an NHS 111 system needs to supply to create the query.

# Guidance for creating an NHS 111 Repeat Caller Query

## HL7 V3 Reminder

A note to remind developers that the NHS 111 Repeat Caller Query is NOT a CDA document. Therefore, there is no concept of “on-the-wire” and “conformance” schemas. The schema provided for the NHS 111 Repeat Caller Query is BOTH the conformance and on-the-wire schema.

## Populating the Repeat Caller Query Message

This section documents the various NHS111 Repeat Caller Query classes and concepts, and what data is required to populate the message. For the optionality of each data item, consult the NHS 111 Repeat Caller Query model. Further guidance on data values is given on the associated model tabular view.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Class: RepeatCallerQuery** | | **Acts as a header for the Repeat Caller Query** | | |  | |
| **Data Item** | **Business relevance** | | **Value Guidance** | **Xpath** | | **Example** |
| classCode | None, a fixed value | | Always **FIXED** to “CACT” | /RepeatCallerQuery/@classCode | | < RepeatCallerQuery classCode="CACT " moodCode="EVN"> |
| moodCode | None, a fixed value | | Always **FIXED** to “EVN” | /RepeatCallerQuery/@moodCode | | < RepeatCallerQuery classCode="PCPR " moodCode="RQO"> |
| id/@root | A unique identifier for the query. Must be a DCE UUID | | A generated DCE UUID | /RepeatCallerQuery /id/@root | | <id root="B709A442-3CF4-476E-8377-376500E829C9"/> |
| code/@code  code/@codeSystem | None, a fixed value | | Always **FIXED**  Code “01”  CodeSystem “2.16.840.1.113883.2.1.3.2.4.17.420” | /RepeatCallerQuery /code/@code  /RepeatCallerQuery /code/@codeSystem | | <code code="01" codeSystem="2.16.840.1.113883.2.1.3.2.4.17.420"/> |
| effectiveTime/@value | The date and time the query was produced | | The system date/time when the query was made. This can be to any precision, but to the second is recommended | /RepeatCallerQuery /effectiveTime/@value | | <effectiveTime value="201105192000"/> |

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| --- | --- | --- | --- | --- | --- | --- |
| **Concept: author** | | **Contains the document author details. NOTE it is expected that author details will conform to the AuthorPersonUniversal conformance profile only.** | | | **Includes classes**  **Author; assignedAuthor; representedOrganization; assignedperson** | |
| **Data Item** | **Business relevance** | | **Value Guidance** | **Xpath** | | **Example** |
| author/typeCode | None – a fixed code | | Always FIXED to “AUT” | /RepeatCallerQuery/author/@typeCode | | <author typeCode="AUT" contextControlCode="OP"> |
| author/contextControlCode | None – a fixed code | | Always FIXED to “OP” | /RepeatCallerQuery/author/@contextControlCode | | <author typeCode="AUT" contextControlCode="OP"> |
| author/contentId/@root  author/contentId/@extension | Varies according to the type of author. Assuming person Universal author only | | Assuming Author Person Universal template only  Always FIXED  Root “2.16.840.1.113883.2.1.3.2.4.18.16"  Extension "COCD\_TP145200GB01#AssignedAuthor” | /RepeatCallerQuery/author/npfitlc:contentId/@root  /RepeatCallerQuery/author/npfitlc:contentId/@extension | | <npfitlc:contentId root="2.16.840.1.113883.2.1.3.2.4.18.16" extension="COCD\_TP145200GB01#AssignedAuthor"/> |
| COCD\_TP145200GB01.AssignedAuthor/classCode | None – a fixed value | | Always FIXED to ASSIGNED | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/@classCode | | <COCD\_TP145200GB01.AssignedAuthor classCode="ASSIGNED"> |
| COCD\_TP145200GB01.AssignedAuthor/id/@root  COCD\_TP145200GB01.AssignedAuthor/id/@extension | Identifiers to indicate the author – this might be an SDS identifier (by preference), or a local one (or both) | | A code system identifier such as “1.2.826.0.1285.0.2.0.65” for an SDS identifier, or “2.16.840.1.113883.2.1.3.2.4.18.24” for a local identifier, and the identifying code | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/id/@root  /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/id/@extension | | <id root="2.16.840.1.113883.2.1.3.2.4.18.24"  extension="100"/> |
| COCD\_TP145200GB01.AssignedAuthor/code/@code  COCD\_TP145200GB01.AssignedAuthor/code/@codeSystem  COCD\_TP145200GB01.AssignedAuthor/code/@displayName | A code that describes the author’s job role – this might be from SDS (by preference), or a local code | | A code system identifier such as “2.16.840.1.113883.2.1.3.2.4.17.196” for an SDS Job Role code, or a local code system and a code from that code system | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/code/@code  /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/code/@codeSystem  /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/code/@displayName | | <code code="OOH02" codeSystem="2.16.840.1.113883.2.1.3.2.4.17.196"  displayName="Nurse Practitioner"/> |
| COCD\_TP145200GB01.AssignedAuthor/addr/@use  COCD\_TP145200GB01.AssignedAuthor/addr/streetAddressLine[1..5]  COCD\_TP145200GB01.AssignedAuthor/addr/postalCode | The address of the author | | An address for the author – maybe from SDS. Use attribute will be fixed to “WP” (work place). For consistency, only have street addressline and postcode as well as the fixed use attribute | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/addr/@use  /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/addr/streetAddressLine  /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/addr/postalCode | | <addr use=" WP">  <streetAddressLine>The Hospital</streetAddressLine>  <streetAddressLine>Hospital Road</streetAddressLine>  <postalCode>CB1 1AA</postalCode>  </addr> |
| COCD\_TP145200GB01.AssignedAuthor/telecom/@value | Phone or email details of the author – maybe from SDS | | Author’s telecom details. Can be a telephone number, email address etc. Fix the “use” attribute to “EC” (emergency contact) | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/telecom/@value | | <telecom value=<tel:01234567890> use=”EC”/> |
| COCD\_TP145200GB01.AssignedAuthor/templateId/@root  COCD\_TP145200GB01.AssignedAuthor/templateId/@extension | None – a fixed value | | Always FIXED to  Root "2.16.840.1.113883.2.1.3.2.4.18.2"  Extension "COCD\_TP145200GB01#AssignedAuthor" | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/templateId/@root  /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/templateId/@extension | | <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD\_TP145200GB01#AssignedAuthor"/> |
| assignedPerson/@classCode | None – a fixed code | | Always FIXED to “PSN” | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/assignedPerson/@classCode | | <assignedPerson classCode="PSN" determinerCode="INSTANCE"> |
| assignedPerson/determinerCode | None – a fixed code | | Always FIXED to “INSTANCE” | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/assignedPerson/@determinerCode | | <assignedPerson classCode="PSN" determinerCode="INSTANCE"> |
| assignedPerson/name/prefix  assignedPerson/name/given  assignedPerson/name/surname | The name of the author | | The name of the author – maybe from SDS. In structured format of prefix, given name and family name | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/assignedPerson/name/prefix  /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/assignedPerson/name/given  /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/assignedPerson/name/family | | <name>  <prefix>Ms</prefix>  <given>Mary</given>  <family>Jones</family>  </name> |
| assignedPerson/templateId/@root  assignedPerson/templateId/@extension | None – a fixed code | | Always FIXED to  Root "2.16.840.1.113883.2.1.3.2.4.18.2"  Extension  "COCD\_TP145200GB01#assignedPerson" | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/assignedPerson/templateId/@root  /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/assignedPerson/templateId/@extension | | <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD\_TP145200GB01#assignedPerson"/> |
| representedOrganization/classCode | None – a fixed code | | Always FIXED to “ORG” | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/representedOrganization/@classCode | | <representedOrganization classCode="ORG" determinerCode="INSTANCE"> |
| representedOrganization/determinerCode | None – a fixed code | | Always FIXED to “INSTANCE” | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/representedOrganization/@determinerCode | | <representedOrganization classCode="ORG" determinerCode="INSTANCE"> |
| representedOrganization/id/@root  representedOrganization/id/@extension | Either the organisation site code (preferred), or the organisation code of the author | | If a site code, root FIXED to “2.16.840.1.113883.2.1.3.2.4.19.2”  If an org code, root FIXED to “2.16.840.1.113883.2.1.3.2.4.19.1”  Plus the actual code | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/representedOrganization/id/@root  /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/representedOrganization/id/@extension | | <id root="2.16.840.1.113883.2.1.3.2.4.19.2" extension="5L399"/> |
| representedOrganization/name | The organisation name associated with the code | | Name associated with the code in the “id” attribute | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/representedOrganization/name | | <name>Chelmsford Trust NHS 111 site</name> |
| representedOrganization/templateId | None – a fixed code | | Always FIXED to  Root "2.16.840.1.113883.2.1.3.2.4.18.2"  Extension  "COCD\_TP145200GB01#representedOrganization" | /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/representedOrganization/templateId/@root  /RepeatCallerQuery/author/COCD\_TP145200GB01.AssignedAuthor/representedOrganization/templateId/@extension | | <templateId root="2.16.840.1.113883.2.1.3.2.4.18.2" extension="COCD\_TP145200GB01#representedOrganization"/> |
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| **Concept: Query and query parameters** | | **Details of the query parameters** | | |  | |
| **Data Item** | **Business relevance** | | **Value Guidance** | **Xpath** | | **Example** |
| person.birthTime/semanticsText | None – a fixed value | | Always fixed to “Person.birthTime” | /RepeatCallerQuery/query/person.birthTime/semanticsText | | <semanticsText>Person.birthTime</semanticsText> |
| person.birthTime/value/@value | The patient’s date of birth | | The patient’s date of birth | /RepeatCallerQuery/query/person.birthTime/value/@value | | <value value="19760330"/> |
| person.familyName/semanticsText | None – a fixed value | | Always fixed to “Person.familyName” | /RepeatCallerQuery/query/person.familyName/semanticsText | | <semanticsText>Person.familyName</semanticsText> |
| person.familyName/value | The patient’s family name | | The patient’s family name | /RepeatCallerQuery/query/person.familyName/value | | <value>Johnson</value> |
| person.givenName/semanticsText | None – a fixed value | | Always fixed to “Person.givenName” | /RepeatCallerQuery/query/person.givenName/semanticsText | | <semanticsText>Person.givenName</semanticsText> |
| person.givenName/value | The patient’s given name | | The patient’s given name | /RepeatCallerQuery/query/person.givenName/value | | <value>Jason</value> |
| person.id/semanticsText | None – a fixed value | | Always fixed to “Person.id” | /RepeatCallerQuery/query/person.id/semanticsText | | <semanticsText>Person.id</semanticsText> |
| person.id/value/@root  person.id/value/@extension | The patient’s NHS Number | | Root is always fixed to “2.16.840.1.113883.2.1.4.1”  Extension is the NHS Number | /RepeatCallerQuery/query/person.id/value/@root  /RepeatCallerQuery/query/person.id/value/@extension | | <value root="2.16.840.1.113883.2.1.4.1" extension="8976781256"/> |
| person.postalCode/semanticsText | None – a fixed value | | Always fixed to “Person.postalCode” | /RepeatCallerQuery/query/person.postalCode/semanticsText | | <semanticsText>Person.postalCode</semanticsText> |
| person.postalCode/value | The patient’s post code | | The patient’s post code | /RepeatCallerQuery/query/person.postalCode/value | | <value>B8 7GF</value> |
| person.streetAddressLine1/ semanticsText | None – a fixed value | | Always fixed to “Person.streetAddressLine1” | /RepeatCallerQuery/query/person.streetAddressLine1/semanticsText | | <semanticsText>Person.streetAddressLine1</semanticsText> |
| person.streetAddressLine1/value | The patient’s street address line 1 | | The patient’s street address line 1 | /RepeatCallerQuery/query/person.streetAddressLine1/value | | <value>65 Fir Tree Avenue</value> |