

NRL Pipe-Cleaning Test Plan

Version 2.2

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Introduction

This plan is an integration test plan to be run on the LIVE NRL and SSP instances during phase 2 of NRL rollout. Its purpose is to ensure that Providers can:

- Create, mark entered-in-error, supersede, and delete Pointers on the LIVE NRL instance (depending on interactions required for use case).
- Make documents available for retrieval via the SSP.

And Consumers can:

- Retrieve the Pointers created by Providers, using SCRA
- Retrieve documents via the SSP.

The plan requires coordinated activities on the part of Providers and Consumers. The plan will have a series of gates that block further execution until acceptance criteria have been met.

The NHS Digital Test Coordinator will run the testing activity liaising with personnel from the Provider and Consumer organisations involved in the test, advising them when to commence an activity and communicating status updates.

This document describes the individual test steps and the associated acceptance criteria and quality gates.

Test plan

Roles

The following roles are referenced in the test plan section below:

Role	Organisation	Description
Test Coordinator	NHS Digital	Initiates test steps and acts as the gatekeeper between steps
Provider	Trust/Supplier	Required to create, update, supersede and delete (where appropriate) Pointers as defined in the test steps section
Consumer	NHS Digital/Ambulance Service	Required to query SCRA for the Pointer information present in NRL and to retrieve the record from the Provider system as defined in the test steps section

Summary

1. Each **Provider** will create 3 Pointers (Pointer A, Pointer B, and Pointer C), for test Patients A, B, and C respectively (as defined in [Appendix > Test Data](#)), and will load them into the LIVE environment (see [Appendix > Environments](#)).
2. Each **Consumer** will display all viewable pointers for the test patients.
3. Each **Consumer** that implements **record retrieval** will retrieve a document referenced by each of the Pointers.
4. Each **Provider** that implements the **supersede** interaction will supersede Pointer A with a new pointer (Pointer A').
5. Each **Consumer** will display all viewable pointers for the test patients.
6. Each **Consumer** will retrieve a document referenced by Pointer A'.
7. Each **Provider** that implements the **delete** interaction will delete Pointer B.
8. Each **Consumer** will display all viewable pointers for the test patients.
9. Each **Provider** that implements the **update** interaction will mark Pointer A' as "entered-in-error".
10. Each **Consumer** will display all viewable pointers for the test patients.

Notes

Any Pointers already held within NRL from previous iterations of pipe-cleaning can be safely ignored for the purposes of this test plan. These can easily be identified by their creation date.

Procedure

1. **Provider** | Create Pointers
 - a. **Providers** create one Pointer for each of test Patients A, B, and C. Each pointer has the following properties:

Property	Value
custodian	[Your ODS code]
author	[Your ODS code]
class.coding[0].code	734163000
type.coding[0].code	736253002
content[0].attachment.contentType	text/html
content[0].attachment.url	[Internet-accessible webpage]
content[0].format.code	urn:nhs-ic:record-contact

In addition, the Pointers for Patients B and C each have the following properties:

Property	Value
content[1].attachment.contentType	application/pdf
content[1].attachment.url	[SSP-accessible location of document]
content[1].format.code	urn:nhs-ic:unstructured

- b. **Providers** inform the **Test Coordinator** of the outcome of those creation requests, i.e. success or failure.

Gate: All Providers successfully added two Pointers.

2. **Consumer** | Retrieve Pointers

- a. **Test Coordinator** asks **Consumer** to query SCRa to retrieve Pointers for Patient A, then Patient B, then Patient C.
- b. **Consumer** verifies that the following Pointer data is displayed for the given Provider for the respective Patients on the Record Locator tab within SCRa:

Patient	Creation Date	Record Type	Record Owner	Details
A	[Current date]	Mental health crisis plan	[Name of trust]	<ul style="list-style-type: none"> 1 × contact details
B	[Current date]	Mental health crisis plan	[Name of trust]	<ul style="list-style-type: none"> 1 × contact details 1 × document pointer
C	[Current date]	Mental health crisis plan	[Name of trust]	<ul style="list-style-type: none"> 1 × contact details 1 × document pointer

Figure 1 Contact details

NHS SCRa Private Beta Find a Patient Change Role Log Out

Donotuse XXTESTPATIENT- [redacted] years old, [redacted]
 Date of birth: [redacted] Address: [redacted]
 NHS number: [redacted] [Copy](#)

Overview Patient Clinical **Documents (1)**

Available documents

There are 1 entries available for this patient

Care providers have shared these entries, which consist of uploaded documents you can view by selecting the "View Document" icon. Alternatively, you can view contact details and get more information for entries that do not have a viewable document.

Record creation date	Record type	Record owner	Clinical setting	Record
[redacted]	Mental health crisis plan	[redacted] No contact information available	Mental health service	View document
[redacted]	Mental health crisis plan	[redacted] View contact information (opens in a new tab)	Mental health service	Contact Record Owner (opens in a new tab)

Showing 1 entries

Figure 2 Document pointer

NHS SCRa Private Beta Find a Patient Change Role Log Out

Donotuse XXTESTPATIENT- [redacted] years old, [redacted]
 Date of birth: [redacted] Address: [redacted]
 NHS number: [redacted] [Copy](#)

Overview Patient Clinical **Documents (1)**

Available documents

There are 1 entries available for this patient

Care providers have shared these entries, which consist of uploaded documents you can view by selecting the "View Document" icon. Alternatively, you can view contact details and get more information for entries that do not have a viewable document.

Record creation date	Record type	Record owner	Clinical setting	Record
[redacted]	Mental health crisis plan	[redacted] No contact information available	Mental health service	View document
[redacted]	Mental health crisis plan	[redacted] View contact information (opens in a new tab)	Mental health service	Contact Record Owner (opens in a new tab)

Showing 1 entries

Note that there will likely be other pointers for patients A, B, and C that have been previously created by other providers. Therefore, it is important to use the "Record Owner" field to identify the correct provider for any given test.

- c. **Consumer** informs the **Test Coordinator** as to whether the above Pointer data was displayed in SCRa for each patient. Please include screenshots to confirm this.

Gate: All 3 Pointers displayed in SCRa.

3. **Consumer** | Retrieve Records

- a. **Consumer** views the Records for Patients B and C in SCRa.
b. **Consumer** informs the **Test Coordinator** as to whether the records are displayed correctly (exact contents will vary depending on the test documents uploaded). Please include screenshots to confirm this.

Gate: Expected Records displayed as expected in SCRa.

Figure 3 Link to view document

The screenshot displays the NHS SCRa Private Beta interface. At the top, there's a blue header with the NHS logo and 'SCRa Private Beta'. Navigation links include 'Find a Patient', 'Change Role', and 'Log Out'. Below the header, a patient profile section shows 'Donotuse XXTESTPATIENT' with fields for 'Date of birth', 'Address', and 'NHS number', along with a 'Copy' button. A tabbed interface below shows 'Overview', 'Patient', 'Clinical', and 'Documents (1)'. The 'Documents' tab is active, showing 'Available documents'. A message states 'There are 1 entries available for this patient'. A note explains that care providers have shared entries consisting of uploaded documents, which can be viewed by selecting the 'View Document' icon. Below this is a table with columns: 'Record creation date', 'Record type', 'Record owner', 'Clinical setting', and 'Record'. The table lists two entries, both 'Mental health crisis plan' from a 'Mental health service'. The first entry has a 'View document' button highlighted with a red box. The second entry has links for 'Contact Record Owner' and 'View contact information (opens in a new tab)'. At the bottom right, it says 'Showing 1 entries'.

Record creation date	Record type	Record owner	Clinical setting	Record
	Mental health crisis plan	No contact information available	Mental health service	View document
	Mental health crisis plan	View contact information (opens in a new tab)	Mental health service	Contact Record Owner (opens in a new tab)

Figure 4 Document view (example)

The screenshot shows the NHS SCRa Private Beta interface. At the top, there's a blue header with the NHS logo, 'SCRa Private Beta', and links for 'Find a Patient', 'Change Role', and 'Log Out'. Below the header, a patient summary bar displays 'Donotuse XXTESTPATIENT- [redacted] years old', 'Date of birth: 23-Jun-1968', 'Address: [redacted]', and 'NHS number: [redacted]' with a 'Copy' button. The main navigation bar includes 'Overview', 'Patient', 'Clinical', and 'Documents (1)'. The 'Documents' tab is active, showing a 'Record Type: Mental health crisis plan'. Below this, the 'Owner:' and 'Creation Date:' fields are visible. A toolbar contains 'Zoom Out', 'Zoom In', 'Rotate 90°', and 'Rotate 180°' buttons. The central document viewer displays a 'Crisis and Safety Plan' form with sections for 'What am I like when I am well?', 'What are the early signs that things are starting to go wrong for me?', 'What can I do or what help do I need when things are starting to go wrong?', 'What are the signs that I am in crisis?', and 'What can I do or what help do I need when I am in crisis?'. Each section has a corresponding colored bar (green, yellow, red) and a text input area. The form also includes 'Name: XXTESTPATIENT-', 'NHS No: [redacted]', and 'Other's Views'.

4. **Provider** | Supersede Pointers

- a. **Providers** who implement the **supersede** interaction supersede the Pointer for Patient A. The new pointer must have the following additional properties compared to the superseded version:

Property	Value
<code>content[1].attachment.contentType</code>	<code>application/pdf</code>
<code>content[1].attachment.url</code>	<code>[SSP-accessible location of document]</code>
<code>content[1].format.code</code>	<code>urn:nhs-ic:unstructured</code>

- b. **Providers** inform the **Test Coordinator** of the outcome of those supersede requests (success or failure).

Gate: Relevant Providers successfully superseded a Pointer

5. **Consumer** | Retrieve Pointers

- a. **Test Coordinator** asks **Consumer** to query SCRa to retrieve Pointers for Patient A.
- b. **Consumer** verifies that the following Pointer data is displayed on the Record Locator tab within SCRa:

Patient	Creation Date	Record Type	Record Owner	Details
A	[Current date]	Mental health crisis plan	[Name of trust]	For the given Provider: <ul style="list-style-type: none"> • 1 × contact details • 1 × document pointer (referencing the record added in step 4).

- c. **Consumer** informs the **Test Coordinator** as to whether the new Pointer data was displayed in SCRa for Patient A. Please include a screenshot to confirm this.

Gate: New Pointer data is displayed in SCRa for Patient A.

6. **Consumer** | Retrieve Records

- Consumer** views the Records for Patient A in SCRa.
- Consumer** verifies that the newly-referenced document is displayed correctly (exact contents will vary depending on the test document uploaded).

Gate: Expected Record displayed as expected in SCRa.

7. **Provider** | Delete Pointers

- Providers** who implement the **delete** interaction delete the Pointer for Patient B.
- Providers inform the **Test Coordinator** of the outcome of the delete request (success or failure).

Gate: Relevant Providers successfully deleted a Pointer.

8. **Consumer** | Retrieve Pointers

- Test Coordinator** asks **Consumer** to query SCRa to retrieve Pointers for Patient B.
- Consumer** verifies that *no Pointers are displayed* for the given Provider.
- Consumer** informs the **Test Coordinator** as to whether Pointers were displayed for Patient B. Please include screenshots to confirm this.

Gate: No Pointers for Patient B displayed in SCRa for the given Provider.

9. **Provider** | Update Pointers

- Providers** who implement the **update** interaction mark the Pointer for Patient A as “entered-in-error”.
- Providers inform the **Test Coordinator** of the outcome of the update request (success or failure).

Gate: Relevant Providers successfully updated a Pointer.

10. **Consumer** | Retrieve Pointers

- a. **Test Coordinator** asks **Consumer** to query SCRa to retrieve Pointers for all 3 Patients.
- b. **Consumer** to verify that the following Pointer data is displayed for each Patient on the Record Locator tab within SCRa (note that the order may be different):

Patient	Creation Date	Record Type	Record Owner	Details
A	No Pointers displayed for the given Provider			
B	No Pointers displayed for the given Provider			
C	[Current date]	Mental health crisis plan	[Name of trust]	-

- c. **Consumer** to inform the **Test Coordinator** as to whether the above Pointer data was displayed in SCRa. Please include screenshots to confirm this.

Gate: Only 1 Pointer, for Patient C, is displayed in SCRa for the given Provider.

11. **Provider** | Cleardown (*optional*)

- a. **Providers** **delete** the remaining Pointer for Patient C.

This step may be skipped if the Provider wishes to leave a Pointer available for future debugging of record retrieval.

Gate: All pointers have now been removed.

12. **Test Coordinator** | Verify and complete testing

- a. **Test Coordinator** verifies that testing is complete (0 or 1 Pointers viewable in SCRa for each Provider, depending on whether they completed Cleardown).
- b. **Test Coordinator** communicates to all **Providers** and the **Consumer** that testing is complete and that no further action is required on their part.

End of test plan

Appendix

Test data

Patient	NHS Number	Date of Birth	Family Name	Given Name	Gender
A	9990536392	23/06/1968	XXTESTPATIENT-TEWW	DONOTUSE	Male
B	9990569126	06/10/1997	XXTESTPATIENT-TJHH	DONOTUSE	Female
C	9990569061	08/10/1956	XXTESTPATIENT-TJHD	DONOTUSE	Female

Environments

NRL	https://clinicalspineservices.nhs.uk/STU3/DocumentReference
SCRa	https://portal.national.ncrs.nhs.uk/portal/
SSP	https://proxy.national.ncrs.nhs.uk