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NRL Phase 2 Onboarding Guide for Providers / Consumers using Direct API Integration - Draft

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# Summary and Document Purpose

This guide outlines the key tasks required for a new provider (e.g. LHCR/Shared Care Record/Trust) to integrate with the NRL (National Record Locator), implementing phase 2 functionality. It also acts as a guide for a new consumer that wishes to connect to the NRL from their own system (e.g. an EPR) via direct API integration. For organisations wishing to consume from the NRL via the SCRa only, please see “NRL Phase 1b Onboarding Guide for SCRa-only users). Also included are key supporting links, reference material and associated guides that provide more detail for each step where necessary.

Some sections will be more relevant to a supplier (such as the technical specification) and some sections will be more relevant to the end user organisation (such as the Provider Guidance). Where an end user organisation is developing an in-house solution for deployment, they are both a Supplier and EUO (End User Organisation) and must complete all the required onboarding steps in both capacities.

Note that the NRL is a generic capability provided by NHS Digital. As such, it is designed to be used as a tool to support multiple use cases (e.g. Digital Child Health, Maternity, End of Life, Cancer care etc). It is likely that each new use case will present additional requirements, pre-requisites and eligibility criteria. Where this is the case, they will be included as a separate tab within the SCAL for suppliers to complete and adhere to.

NRL Phase 2 is currently in delivery. It builds upon the functionality delivered in phase 1, whilst introducing the ability to directly retrieve records alongside an updated pointer model, amongst other enhancements. As such, several sections will still reflect phase 1 content until such time that it has been updated for phase 2 – this will be highlighted in red to identify such cases.

Some sections of the guide will only be relevant to Consumers and some will only be relevant to Providers - in such cases this distinction will be indicated in red.

# Introduction to NRL

An introduction to NRL can be found on the NHS Digital website at the following address:

<https://digital.nhs.uk/services/national-record-locator>

The below presentation provides a visually rich companion to the introduction:



Note that some of this material is specific to phase 1 such as the SCRa screenshots

## Existing Connecting Parties

Phase 1 of NRL went live as a Beta service on 30th November 2018. It was restricted to Mental Health Trusts publishing pointers either directly onto the NRL or via Shared Cared Records, indicating the presence of a Mental Health Crisis Plan for a given patient, such that Ambulance Trusts can view these pointers using the SCRa or their own system (via direct API integration). The below diagram shows the connecting parties that went live with NRL on 30th November 2018.



# Roadmap & Current Eligibility Criteria

NHS England have provided a steer that, going forward, a policy of “LHCR first” should be adopted. LHCRs form the cornerstone of the strategy for national rollout of the NRL service beyond the Beta stage. As such, the NRL should only onboard additional trusts and Shared Care Records where they have written consent from the LHCR within which they sit, or where there is not currently LHCR coverage. This is often the case where a LHCR has not sufficiently matured in their development and is not yet able to integrate with the NRL within a reasonable timescale (thereby acting as the hub by which all trusts and Shared Cared records within their area can interact with the NRL).

A second element to Phase 2 (a.k.a. Phase 2b) sees the introduction of two new use cases: Digital Child Health and Maternity, due to go-live alongside the phase 2a enhancements to the core NRL service (pointer model update and retrieval). NHS Digital is currently in the process for agreeing the governance process to decide which other additional use cases will be added to the NRL and the timescales for doing so.

# Prerequisites

All pre-requisites are covered in detail within the SCAL/business requirements. However they have been extracted here and summarised to help connecting parties identify potential showstoppers at an early stage.

1. A valid ODS code is required for the connecting party (whether it be for a LHCRE, Shared Care Record or Trust). You can check if your organisation already has a code registered by using the ODS (Organisation Data Service) Portal:

<https://odsportal.hscic.gov.uk/Organisation/Search>

1. Consistent use of NHS number to identify patients. (A connecting party must be fulfilling their duties under the NHS Standard Contracts to use the NHS number as a 'consistent identifier')
2. The ability to verify NHS numbers via any of the following mechanisms:

* Full PDS Spine compliant system
* Spine Mini Service PDS (SMSP)
* Demographics Batch Service (DBS) (Providers Only)

If your system achieves this via an indirect method (e.g. PAS) then it is recommended to contact NHS Digital to confirm that the method is acceptable.

1. N3 or HSCN connection. This is required for both live service and the online testing process.
2. For Providers who are exposing contact details via their pointers, a dedicated team should be available to be contacted via telephone (e.g. Mental Health Crisis Team, Crisis Care Team). (Mental Health Providers only, where they have chosen to implement a “pointers only” delivery i.e. excluding direct record retrieval)
3. A valid NHS Smartcard for all users or a system that uses an authentication method supported by NHS Identity. (Consumers only)
4. Your organisation must have completed the DSPT (Data Security Protection Toolkit) within the last 12 months (<https://www.dsptoolkit.nhs.uk>).
5. Consumers and providers should support PDF as a minimum for unstructured retrieval. There is a restricted set of data formats allowed for NRL retrieval. Details of the requirements can be found here:

<https://developer.nhs.uk/apis/nrl/retrieval_formats.html>

1. Clinical Safety – Connecting parties must have an appointed Clinical Safety Officer and undertake a Clinical Safety Assessment prior to going live.

# Delivery Options / Approach

New parties wishing to connect to the NRL have the following two options:

1. **Pointers Only** – in this case pointers will only expose a link to a static web page (in phase 1 this was the contact details page of the Mental Health Crisis associated with the patient).
2. **Pointers and Record Retrieval –** providers will make their records available for direct retrieval by Consumers via the NHS Digital SSP (Spine Secure Proxy).

In most cases the full benefits of NRL can only be realised through delivery of both pointers and record retrieval. The option chosen impacts which of the full set of requirements and tests that need to be implemented and this delineation is represented in the SCAL.

Given that some connecting parties will already have integrated with the NRL in previous phases, this gives rise to the following 5 categories of delivery path:

|  |  |  |
| --- | --- | --- |
| Delivery  Path | Description | Comments |
| 1 | A combined route for NEW connecting parties wishing to implement the latest pointer model and retrieval at the same time. | This is the recommended option for all new trust/suppliers as it is the most cost/time efficient, with an outcome that provides the most benefit. |
| 2 | A route for NEW connecting parties wishing to deliver “pointers only” (to include the latest pointer model but NOT retrieval). | Not recommended unless suppliers/trusts have good reason not to implement retrieval at the same time. |
| 3 | A route for EXISTING connecting parties who have already implemented the latest pointer model and now wish to add retrieval | Only applicable to connecting parties who have already completed route (2). |
| 4 | A route for EXISTING connecting parties that have already delivered the old pointer model under phase 1 to **uplift** to phase 2 functionality (i.e. including both retrieval and pointer model updates). | This is the most appropriate route for connecting parties that went live with Phase 1 in November 2018 and phase 1b in April 2019. Becomes redundant once all existing connecting parties are uplifted |
| 5 | A route for EXISTING connecting parties that have already delivered the old pointer model under phase 1 to **uplift** to the new pointer model but NOT retrieval | Like route 3, this addresses the “breaking changes” introduced for phase 2. All existing connecting parties must undertake this as a minimum in order to continue being able to post pointers to the NRL following Phase 2 go live. |

# Onboarding Task Checklist

The following activities are listed in a recommended chronological order but most will need to be undertaken in parallel:

1. Assign key resources to the project including:
   1. Primary Contact (e.g. project manager)
   2. Technical lead and/or developer(s)
   3. IG lead
   4. Clinical lead
2. Ensure all resources are familiar with the NRL and its purpose.
3. Review Onboarding Documentation.
4. Confirm Delivery Approach.
5. Commence Product Development.
6. Commence activities listed in SCAL
7. Commence any applicable local clinical safety assessments / processes.
8. Test development against reference implementation.
9. Complete TKW.
10. Complete Conformance Testing (NHSD Test Environment).
11. Update Business Processes and Train Users.
12. Obtain all necessary local approvals for go-live (e.g. clinical safety, board approvals).
13. Undertake implementation with NHS Digital.
14. Provide Benefit Realisation feedback

# Business Requirements

The purpose of this document is to define the business requirements that need to be satisfied for Consumer and Provider systems wishing to connect and use the National Record Locator (NRL).



# Provider / Consumer Guidance

Phase 1 content: This section is currently being updated to reflect phase 2

The NRL Provider Guidance document outlines how a Mental Health Trust should use the NRL from an operational perspective. Aspects covered include the requirement for Crisis Team Contact details and Audit requirements. Of key importance is the pointer lifecycle and its relationship with the patient journey and, as such, it is recommended that Consumers also read this to obtain a holistic knowledge of the NRL.

Also included is the Consumer Guidance document. Note that this is primarily aimed at Consumers using the SCRa to access the NRL. However, it has been included here as it could potentially also be of use to Consumers looking to access the NRL via direct API integration and are looking for an example of how the API could be implemented.

# Technical Specification and Development Resources

## Technical Specification

The technical specification is a one stop shop for all technical personnel looking to integrate with the NRL using the NRL FHIR API (Fast Healthcare Interoperability Service, Application Programming Interface). It is a “must read” before attempting any development.

<https://developer.nhs.uk/apis/nrl/>

## Online Reference Implementation

There are some online resources that can aid in early development against the NRL API specification which are detailed below.

The NRL Reference Implementation UI can be found at:

<https://data.developer.nhs.uk/nrls-ri/index.html>

Within this UI there are “GET”, “POST”, “PATCH” and “DELETE” features that provide example data sets that all­­­­­ow you to quickly run and review calls to, and responses from, the NRL Reference Implementation. Clicking each of these features will expand to provide more details and then a “Try it out” button that will show you the example data.

When you are ready to send your own requests to this tool, the end-point that you will need to point your request at is:

<https://data.developer.nhs.uk/nrls-ri/DocumentReference>

For quick start information and example data, please see the NRL Reference Implementation quickstart guide:

<https://github.com/nhsconnect/nrls-reference-implementation/wiki/1.-Quick-Start-guide>

## Local Reference Implementation

This reference tool is open source and can be downloaded, built and ran locally. A benefit of this would allow you to utilise your own data. You can download the code and access the wiki for instructions and installation requirements here:

<https://github.com/nhsconnect/nrls-reference-implementation>​

Alternatively, if you are familiar with Docker you can utilise that to run a version of this tool locally within just a few minutes.

## Other Key Design Decisions (Providers Only)

Before the NHS Digital Solution Assurance Team can finalise your formal testing scope, you will need to confirm the following:

**Will you be implementing the MasterIdentifier?** For details, please see the following section on the technical spec:

https://developer.nhs.uk/apis/nrl/pointer\_identity.html#master-identifier

**If not, you must use the NRL-generated Logical ID** (please note: if you use the pointer’s Logical ID then you need to store the pointer’s Logical ID that is returned in the HTTP location header in the response to a CREATE).

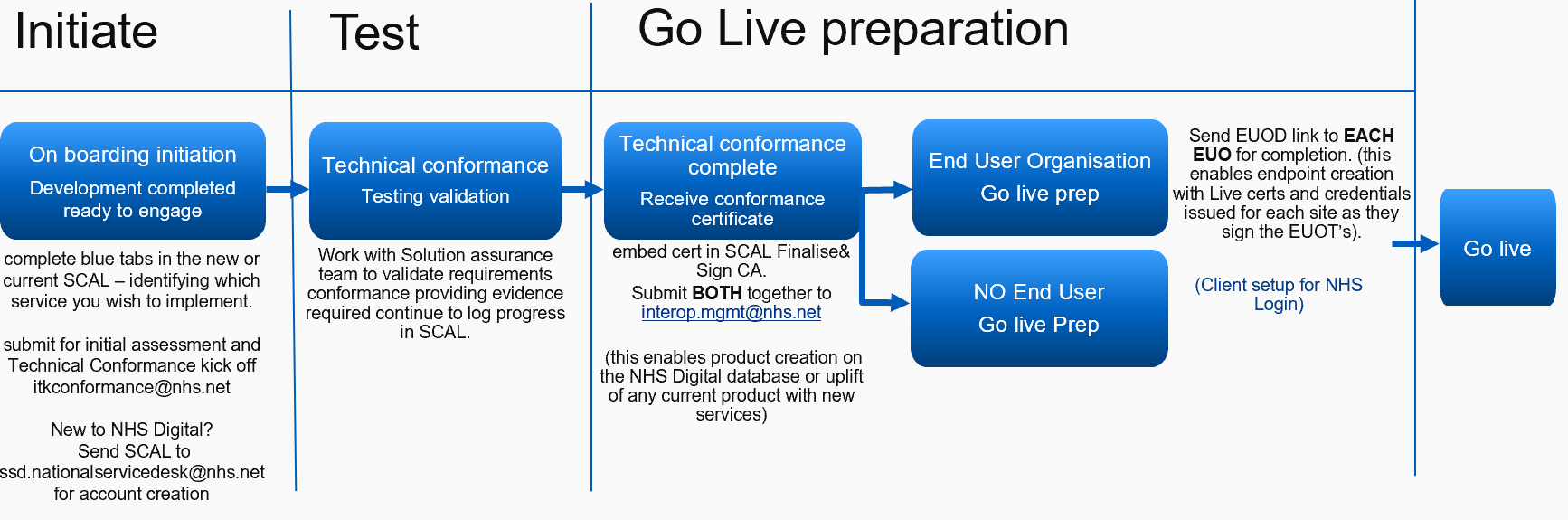
All existing providers currently taking part in the NRL Beta, carried out a bulk upload of pointers during the implementation. After go-live, the two main approaches taken to add and maintain pointers are:

* Nightly bulk maintenance job to create, supersede, update and delete pointers where required.
* Real-time create, supersede, update and deletes as and when changes are made to patient’s records (e.g. care plans).

Any alternative approaches should be discussed with NHS Digital.

# Testing and Technical Conformance

## End-to-End Process



When you are ready to begin formal testing you need to engage directly with Solution Assurance team ([itkconformance@nhs.net](mailto:itkconformance@nhs.net)) who will guide you through the process. There are two stages to formal testing:

1. Local testing using the TKW (Toolkit Workbench / FHIR® API Testbench) which can be downloaded and installed locally.
2. Online testing on the NHS Digital Integration environment (“INT”)

Solution Assurance will issue you with the latest version of the SCAL along with a “Scoped Test Cases” document that describes which tests within the SCAL are required to be undertaken, based upon the scope of your delivery (see Delivery Options / Approach).

## Local TKW Conformance Testing

Testing with the TKW is a pre-requisite to online conformance testing directly with NHS Digital hosted Test Environments (i.e. INT environment). Essentially, it is a package that can be downloaded and installed locally to simulate testing with the NRL (in a similar fashion to a stub). The files include the **TKW Simulator Guide** and set of **Simulator Triggers**, which detail how to test your solution. The NRL TKW, guide and triggers can be downloaded from Github:

<https://github.com/nhsconnect/FHIR-NRLS-API/tree/assurance/content/uploads/tkw>

## PTL Sandpit Connection Process (“INT” environment)

Once the TKW has been submitted and verified by the Solution Assurance team, connecting parties will be able to proceed with testing on the NHS Digital INT environment which is the PTL (Path to Live) environment that hosts the instance of NRL most representative of the Live environment.

It is recommended to connect to the INT environment in advance of completion of TKW testing to ensure seamless progress without potential delays associated with connection issues. To connect to the INT/PTL environment, users must complete and submit the Sandpit Connection Form:



Once completed, please submit this form to the Solution Assurance Team ([itkconformance@nhs.net](mailto:itkconformance@nhs.net)) who will also be able to assist in the event of any connectivity issues.

## Online Conformance Testing

Once you have completed the TWK testing, provided all associated testing evidence to the Solution Assurance team and connected to the online testing environment (INT), you will be able to run the remaining tests within the online testing environment and finalise the SCAL.

These tests will be listed as INT (Integration) or PTL (Path To Live) tests on the “Scoped Test Cases” document.

## Onboarding Artefacts

There are 3 key artefacts that support Technical Conformance and the integration with NHS Digital Services.

### Supplier Conformance Assessment List (SCAL)

* Maps all the requirements needed to interface with a specific service and the evidence required during technical conformance process and is Supplier/Product focussed.
* Within the SCAL, the Connecting Party logs where a product meets the technical, IG&S and Clinical safety requirements in a technical and business context.
* Many sections of the SCAL can be completed in parallel to the testing so it is recommended that all connecting parties familiarise themselves with the SCAL as early in the process as possible.

(The SCAL replaces the TOM that was used for the initial NRL Beta in November 2018)

### Connection Agreement

* Agreement formed between the Supplier (connecting party) and NHS Digital. comprises of a set of terms and conditions, links to the SCAL, and any Special Terms for a service and exists as an agreement for the duration of connection to the service.
* References End User Organisations and Individual End User obligations.
* Only needs to be completed by organisation directly connecting to NHS Digital systems.
* Example: 

### End User Declaration and Terms

* Agreement formed between the End User Organisation and NHS Digital. Comprises of a set of terms and conditions, links to the End User Declaration, and any Special Terms for a particular service and exists as an agreement for the duration of connection to the service.
* Outlines key End User Organisational local responsibilities including Clinical Safety, IG and Security and local assurance and risk assessment.
* References End User Organisations and Individual End User obligations
* The End User Declaration (EUD) must be signed by the End User Organisation (EUO) i.e. the organisation (Trust/Shared Care Record/LHCRE) that will deploy the supplier product or implement the in-house solution, for use in patient direct care.
* The below is an extract of the draft questions contained in the online portal and can be used as an example of the questions that need to be answered in advance of completing the online form itself.
* Example: 

## How to complete a SCAL

* **Initiate:**

1. Complete blue tabs in the new or current SCAL – identifying which service you wish to implement.
2. Submit for initial assessment and Technical Conformance kick off to [itkconformance@nhs.net](mailto:itkconformance@nhs.net). Where a ‘yes’ conformance is noted on the IG and clinical safety questions, we do not need any further information. Should the answer be ‘No’ and will remain ‘No', this is where some additional information would be required for us to assess and agree a way forward.

*?New to NHS Digital? (step 3)*

1. Send SCAL to [ssd.nationalservicedesk@nhs.net](mailto:ssd.nationalservicedesk@nhs.net) for service desk account creation to enable the ability to raise incidents in Live.

* **‘Test’ Technical Conformance:**

1. During the technical conformance work with the Solution Assurance team to validate requirements conformance providing evidence where required and continue to log progress in SCAL.

* **Finalisation - Go live Preparation:**

(Once technical conformance has been completed successfully and your Technical Conformance certificate TCC has been provided please follow the next steps)

1. SCAL - please ensure that the TCC or statement is embedded in your final completed SCAL.
2. Please use the following naming convention

SUPPLIER NAME\_NHSD SERVICE/S\_SCAL\_Vsn(X)\_Final.

e.g. ‘H&SCsuppLTD\_’the Service’\_SCAL\_vsn 2.0 FINAL’

1. Along with the SCAL please submit a signed Supplier Connection Agreement to [interop.mgmt@nhs.net](mailto:interop.mgmt@nhs.net).

!! Ensure that the correct service/s are selected and provide a **signature, position and date of the signatory**. Again using the same naming convention (with the service). This just aids logging and cataloguing.

1. Submission of the SCAL and CA enables product/client to be created on the NHS Digital database or uplift of any current product with the new service.

(Once the above has been received by the NHS Digital Operations team, you will be provided with an EUODT link for your end users to complete)

Send EUOD link to **EACH EUO** for completion - this enables endpoint messaging creation with Live certs and credentials issued for each site as they sign the EUOT’s.

# Live Service Implementation

## Implementation Pre-requisites: Go/No go criteria

Phase 1 content: This section is currently being updated to reflect phase 2

Before any activity can take place on the Live Service, approval must be granted via a Go / No-Go assessment (usually undertaken as a teleconference). The following checklist must be completed and returned in advance to provide a basis for the assessment:



## Requesting a live connection

Phase 1 content: This section is currently being updated to reflect phase 2, specifically connection to the SSP.

Once the following activities have been complete, live connection details can be requested from the onboarding lead ([interop.mgmt@nhs.net](mailto:interop.mgmt@nhs.net)):

1. Technical Conformance Testing Completed by Supplier.
2. SCAL completed by supplier and accepted by NHS Digital.
3. Connection Agreement signed and returned by Supplier.
4. Online End User Declaration completed by End User Organisation.

• NRL URL: https://clinicals.spineservices.nhs.uk/DocumentReference

• IP Addresses:

- Live A: X.X.X.X

- Live B: X.X.X.X

• Port: X

• LDAP URL (TCP/Port X): X

• LDAP Spine A IP: X.X.X

• LDAP Spine B IP: X.X.X.X

• Spine Party Key: X

• NRL ASID: X

Note: LDAP information may not be required, depending upon local implementation differences.

The onboarding lead will instruct the NHS Digital DIR team to configure endpoints in the live environment. A 12-digit ASID will be registered for the connecting party and attached to their Party Key.

## RBAC (Consumers Only)

To use the NRL, users will need to have Role Based Access Control (RBAC) codes added to their Smartcard (or equivalent). There are different RBAC codes applicable to the NRL, giving different levels of access. The codes that should be added will depend on the level of access that an individual user needs access to. For full details on the activity codes required to access the NRL and which record types they give access to, see the [RBAC mapping table section](https://developer.nhs.uk/apis/nrl/explore_rbac_mapping.html%20) of the NRL technical specification.

Users will also need to be able to perform a patient trace to use the NRL. If they don’t already have this RBAC code it will need to be added to their Smartcard (or equivalent):

|  |  |
| --- | --- |
| **Smartcard activity code** | **Description** |
| B0264 | Access SCR Application (Perform Patient Trace) |

The addition of RBAC codes needs to be performed by the Registration Authority Manager within your organisation. Guidance for Registration Authority Managers is available on the [NHS Digital website](https://digital.nhs.uk/services/registration-authorities-and-smartcards/care-identity-service/guidance-leaflets), including how to [assign access to users](https://digital.nhs.uk/binaries/content/assets/legacy/pdf/j/8/assigning_access_to_user.pdf) and how to [perform batch updates](https://digital.nhs.uk/binaries/content/assets/legacy/pdf/j/5/batch_management.pdf).

During Implementation it is important that only users that will be involved in the Live Validation have the above codes enabled. Only once the service has been validated and go-live confirmed, should the full user set have the relevant codes added to their Smartcards.

## Pipe Cleaning

Once successfully connected to the NHS Digital Live environment and approved for implementation, all providers and consumers will be required to undertake pipecleaning, as per the below Pipecleaning test plan. Essentially, this is a live validation exercise using dummy NHS numbers (as defined in the appendix) that includes the following basic steps:

1. Provider (Trust) creates two NRL pointers in LIVE against two fictitious NHS Numbers (one against each)
2. Consumer (SCRa) checks that both the new pointers exist (evidencing with a screenshot)
3. Provider (Trust) deletes one of the pointers created in step 1
4. Consumer (SCRa) checks SCR to confirm deletion (evidencing with a screenshot)
5. Provider (Trust) deletes remaining pointer, thus clearing the system reading for the next Trust to be onboarded.
6. Consumer (SCRa) checks SCR to confirm deletion.
7. Test coordinator confirms completion of pipecleaning



## Bulk Upload of Pointers (Providers Only)

Once pipecleaning is complete, you will be able to commence the bulk upload of pointers. This represents the baseline from which you will begin live service.

1. Prior to commencing the bulk upload, please confirm to the NHS Digital Implementation Lead how many pointers you intend to upload and confirm that both parties are ready to begin.
2. Once the bulk upload is complete, please confirm the exact number of pointers uploaded and any issues/discrepancies encountered.
3. NHS Digital will then run a count directly against the NRL index to confirm that they match
4. If the two counts match, then go-live is complete!

# Post Implementation

## Support Model – Process for Raising Incidents

It’s vital that all incidents or requests for support are raised through the appropriate channels so that they can be investigated and resolved as quickly as possible. This is especially important whilst we are in the beta phase so that we can resolve any issues before going into full national rollout. If there are any incidents that have taken place previously and have not been reported please can you do so.

Attached is the support model for your information. In summary, the key action is that any incident that is raised and can’t be resolved locally must be raised to the NHS Digital National Service Desk:

****

**National Service Desk**

**Online:** [**https://nww.serviceportal.digital.nhs.uk/CherwellPortal/NHSD#0**](https://nww.serviceportal.digital.nhs.uk/CherwellPortal/NHSD#0)

**Tel: 0300 3 035 035**

Incidents could occur for either NRL Consumer or Providers. A couple of example scenarios are described beneath:

NRL Provider Scenario

No response returned from the NRL after an NRL Provider request e.g. NRL Provider makes a Create request to the NRL but does not receive a Create response

NRL Consumer Scenario

No pointers displayed when a user clicks on the Record Locator tab on the SCRa i.e. user can view the Record Locator page but no records are listed

## Environment Maintenance

During the onboarding process, all connecting parties will be added to the Platforms Support Newsletter distribution list. The newsletter informs users of forthcoming changes to the NRL Service that are deployed to the NRL test environments (currently “INT”) prior to Live.

If you do not receive these newsletters in the first two weeks following go-live, it is recommended that you contact the Platforms Support Desk ([platforms.supportdesk@nhs.net](mailto:platforms.supportdesk@nhs.net)) who will be able to add you.

## Benefits reporting

All consumers and providers will be required to provide baseline information in the form of short surveys, questionnaires and reports prior to going live and then again, 1 month, 3 months and 6 months post go live.