

Connecting to SystmOne via the open API

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Version control

Version	Date	Notes
0.01	28/03/2019	Document Creation
0.02	20/06/2019	Added DPIA document and few wording changes
0.03	27/05/2020	Specification uplifts based on GP Connect API 0.7.3

Introduction

TPP have developed an API that will allow content from patient records to be shared between SystmOne and third party clinical software application. It is designed to be used at the point of care, allowing clinicians to make better informed decisions based on them having access to additional data about the patient.

Overview

This API has been developed using an existing API that was designed by the NHS for the GP Connect program of which TPP is an accredited Provider and Consumer of patient records. This means that SystmOne and the third party system will be able to exchange patient record data in an unstructured and pre-rendered format.

This integration will use two message types. Firstly, a Find Patient message will be sent to confirm the presence of the patient on the receiving system. Then, providing that the patient is found, the consuming system should send a Get Care Record message to the specific unit, by using its organisation code, which specifies the relevant view of the record that the consumer wishes to receive.

The HTML views supported by this integration will be:

1. Summary
2. Encounters
3. Clinical Items
4. Problems and issues
5. Allergies and adverse reactions
6. Medications
7. Referrals
8. Observations
9. Immunisations
10. Administrative items

How these views are populated will depend largely on the clinical content available in your clinical system. The data items that are contained in the SystmOne views are attached below.



Populating the
HTML Views from Sy

Reciprocity

There is an expectation that as well as consuming the views of the record from SystmOne, that the third party clinical system will also provide clinical content that will be shared with SystmOne users. This way, the user experience will be enhanced in both clinical systems as they will have access to more clinical data.

Specifications

The specification of the messages closely follows the GP connect specifications, which can be found below:

Overview: <https://developer.nhs.uk/apis/gpconnect-0-7-3/accessrecord.html>

FHIR resources: <https://developer.nhs.uk/apis/gpconnect-0-7-3/datalibraryaccessRecord.html>

Find Patient message:

https://nhsconnect.github.io/gpconnect/foundations_use_case_find_a_patient.html

Get Care Record message: https://developer.nhs.uk/apis/gpconnect-0-7-3/accessrecord_use_case_retrieve_a_care_record_section.html

JWT payload details: https://developer.nhs.uk/apis/gpconnect-0-7-3/integration_cross_organisation_audit_and_provenance.html

Detail and Differences from the GP Connect Specifications

Note the following differences from the GP Connect specification.

The consuming system shall have performed a Patient Demographic Service (PDS) trace of the patient's NHS Number, however, checks against Spine such as resolving the endpoint of the recipient organisation through the Spine Directory Service (SDS) will not be necessary.

Rather than sending messages to each other via the Spine Security Proxy (SSP), messages sent via this integration will be sent and received directly to SystmOne servers. Therefore, you will be required to provide TPP with the endpoint URL and IP that you will be using to receive and send messages. You will also need to configure your firewall to allow access to and from SystmOne servers (TPP can provide the DNS/IP and port details when requested).

On showing intent to develop against this API, TPP will provide endpoint details of a suitable test environment that third parties can use to test their integration. The third party will be able to use this endpoint in order to pass the assurance process detailed below. At this point, TPP will provide access to the live environment.

The integration will use TLS 256 bit encryption and mutual certificate authentication. TPP will provide certificates signed using TPP's CA that can be used for authentication purposes.

Find Patient Message specific details

Note that the Find Patient message differs from the specification link provided below. The specification link below uses the STU3 format whereas this integration uses the DSTU2 format. Whilst the request is unchanged between the two versions, the response in this integration will contain a bundle including a patient resource and one or more organisation resources. These will indicate the ODS codes of the practices where the patient is found and the relevant patient resource, where found.

There are minor differences also between the DSTU2 and STU3 message headers so it is advised to refer to the example message for a header example rather than looking at the link. Note that the Ssp-From field in this integration's Find Patient message will be populated with unit ODS codes rather than ASIDs. The Ssp-To field in the Find Patient message is empty.

Get Care Record Message specific details

The Ssp-To and Ssp-From fields in this integration's Get Care Record message will be populated with unit ODS codes rather than ASIDs.

Example Messages



HTML integration
example messages.d

Getting started

If you are happy with the information above and want to start the process of integrating with TPP then you need to follow these steps.

Provide confirmation that you will both consume and provide patient records in the format detailed above.

- 1) TPP will require the following details to give access to a test environment:
 - a. Endpoint URL and IP address of your test end-point
 - b. CSR Request for sending messages to SystmOne
- 2) TPP will provide
 - a. Signed certificate
 - b. Details of end point access for test environment
 - c. Test patient details for test environment

Assurance Process

Third Party Provider: You will be required to set up a test patient on your testing environment. TPP will then verify that data is being sent correctly by sending test messages to your system and retrieving the care record for the test patient.

Third Party Consumer: you will be required to show that you are successfully able to retrieve patient data from a SystmOne test patient.

Data Protection and licences

We will require a DPIA from the third party supplier to ensure we have exercised due diligence to ensure there are enough technical and organisation measures to protect the consuming data by another data processor (regardless that we have instructions to process from respective data controllers). This is to align with new requirements we are obligated to adhere to with regard to GP Data under NHS Digital's new framework.

In addition, we are also looking at execute a Fair Usage Policy and Open API Alignment declaration which governs the connection before rolling out (beyond pilot) but once we have this we will forward this on to you to review.

TPPs DPIA is attached below.



HTML_RECORDS_
Integration_DPIA.DC