2T Solutions Limited

Service Descriptions & Pricing Document

G-Cloud

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1 Summary

This document provides a brief description of the Spirit Base Subscription capabilities, the Spirit Plus Subscription capabilities and the (optional) additional Workflow Subscriptions, that can be added to either the Spirit Base or Spirit Plus annual subscription.

An organisation (Service User) gains access to the 2T Solutions Limited Base or Plus Service and any of the optional Workflow services when the organisation purchases the appropriate 2T Solutions Limited subscription(s).

An organisation is an active legal entity registered as a company or charity with HM Government.

2 Spirit Base Service

The Spirit Base Service provides an open, standards-based, information sharing platform for the secure exchange of data between disparate systems, both within and across organisational boundaries.

It enables Service Users to create and manage information across the continuum of care, supporting the secure sharing of structured and unstructured clinical content.

Service Users interface with the service using well know and established interoperability paradigms to publish and consume Documents and Patient information.

The service enforces access to and the consuming of information by Service Users according to the policy of the publishing service user and patient.

The Service components provide Service Users with the capabilities to locate citizens and their information and facilitate the exchange of near real-time data, while enforcing secure, audited access to that information.

2.1 Spirit Base Subscription Components and Capabilities

The Spirit Base Subscription includes the following components and capabilities.

2.1.1 Spirit API

In addition to standards-based integration via IHE transactions and HL7v2/v3, the Spirit API provides a Web Services Simple Object Access Protocol (SOAP) software layer that enables and simplifies the service user's systems integration with the Spirit Base Service. For security reasons, the Spirit API does NOT support external systems integration using HL7v2.

2.1.2 Spirit ACS

Spirit Access Control System (ACS) protects all data (both in transit and at rest). Spirit ACS provides accountability/non-repudiation, integrity, availability, and confidentiality security services to Clients. Spirit ACS creates authorisation assertions (SAML or JWT tokens), which represent identity, role, and other authorisation-related attributes in a standardised format. A Client's local access control system can use the assertions to control information access.

2.1.3 Spirit Enterprise Master Patient Index

The Spirit Enterprise Master Patient Index (EMPI) links and matches patients and ensures that patients are uniquely identified for Clients by the Service.

2.1.4 Spirit Policy Administration Point

Spirit Policy Administration Point (PAP) provides Clients with interfaces for global and patient-specific access policy management.

2.1.5 Spirit Audit Record Repository

The Spirit Audit Record Repository (ARR) collates Audit Trail Node Authentication audit event information and enables Clients to create centralised patient specific access reports.

2.1.6 SPIRIT Healthcare Provider Directory

Spirit Healthcare Provider Directory (HPD) supports Client queries and management of publicly shared Healthcare Provider Information in a directory structure.

2.1.7 Spirit Archive

Spirit Archive provides Clients with a Cross-Enterprise Document Sharing (XDS) Registry and Repository. Client's use the Spirit Archive Registry service to register and locate documents. Each Client is provided with an XDS Repository to store documents published by the Client. Spirit ACS provides Spirit Archive with the necessary security services to enforce legitimate access to Client repositories. Spirit Archive is information content-neutral, supporting structured and unstructured Information.

2.1.8 Spirit Terminology Management Service

Spirit Terminology Management Service (TMS) provides Clients with an XML-based terminology management service that performs translation, lookup and mapping for clinical coding systems.

3 Spirit Plus Subscription Components and Capabilities

The Spirit Plus subscription extends the Spirit Base capabilities to include additional Cross Community subscriptions:

3.1 Spirit STS

Spirit Security Token Service (STS) translates Client claims/tokens between service subscribers' token implementations, to enable secure cross-community interactions between different organisational security implications, such as OAuth, ID Connect, SAML, etc.

3.2 Spirit XDW

Spirit XDW enables service subscribers to create Cross-Community workflows for individual clinical use cases. For example, a Cancer Care Cross-Community Workflow between multiple cancer care providers.

3.3 Spirit Content Creator

Spirit Content Creator supports the creation of structured content such as CDA/CCDA documents using the Spirit Base subscription API services.

3.4 Spirit Health Portal

The Spirit Health Portal provides a graphical user interface (GUI) for the management and display of patients and documents.

3.5 GP Notification Audit API.

The GP Audit Workflow provides access to GP and National Notification workflow audit records. It exposes a simple RESTFul based API which Subscribers are able to use to create monitoring views and auditing of Notification Workflows.

4 Optional Spirit Workflow Subscriptions

Optional Workflow subscriptions can be added to the 2T Solutions Limited Base or 2T Solutions Limited Plus Service subscription. The following describes the available Workflow Services.

4.1 Diagnostic Imaging Exchange Workflow

Diagnostic Imaging Exchange Workflow supports radiology image and report exchange between workflow subscribers. Health Community Clients are able to share images for diagnostic and non-diagnostic use by publishing images or Key Object Selection (KOS) objects.

4.2 Laboratory Results Exchange Workflow

Laboratory Results Exchange Workflow supports the exchange of laboratory results between workflow subscribers. Clients are able to publish Laboratory Results as HL7v2 messages and the service creates structured documents that can be shared with the Health Community.

4.3 Cross Community Document Exchange Workflow

Cross Community Document Exchange Workflow supports the exchange of documents between workflow subscribers in different communities. Spirit Cross Community Access (XCA) enables Clients to locate patient records held in other local, regional, national and International Health Information Exchanges.

4.4 Cross Community Diagnostic Imaging Exchange Workflow

Cross Community Diagnostic Imaging Exchange Workflow supports the exchange of images and reports between workflow subscribers in different communities.

4.5 Cross Community Laboratory Results Exchange Workflow

Cross Community Laboratory Results Exchange Workflow supports the exchange of laboratory results between workflow subscribers in different communities.

4.6 GP Notification (EDT) Workflow

The GP Notification (EDT) Workflow supports the forwarding of documents published to the service, to an external EDT HUB.

4.7 GP Notification (DOCMAN) Workflow

The GP Notification (DOCMAN) Workflow supports the forwarding of documents published to the service, to the external DOCMAN cloud service.

4.8 GP Notification (HGW) Workflow

The GP Notification (HGW) Workflow supports the forwarding of documents published to the service, to the external Healthcare Gateway (HGW) service.

4.9 National Notification (NRL) Workflow

The National Notification (NRL) Notifications Workflow, supports the sending of NRL notifications (pointers) to the external NHS Digital NRL Service, based on the availability of documents published to the service.

4.10 National Notifications (MESH) Workflow

The National Notifications (MESH) Service Notifications Workflow supports the creation of MESH compliant files from Published documents to enable an NHS provided MESH Client to forward the published information to the NHS MESH central Service.

4.11 National Patient Demographic Service (PDS) Workflow

The National patient demographics Service Workflow supports patient NHS number lookup and verification against the NHS central PDS service.

4.12 External Web Services Workflow

The External Web Services workflow supports the secure integration of an external organisation with a 2T Solutions Limited, service user, using either HL7v3 or the 2T Solutions Limited Web Services Simple Object Access Protocol (SOAP) API.

4.13 External IHE Workflow

The External IHE workflow, supports the secure integration of an external organisation with a 2T Solutions Limited-service user, using IHE transactions.

5 2T Solutions Limited - Service Subscription Prices

Subscription Description	Annual Price
Spirit Base Service	35,500.00
Spirit Plus Service	45,950.00
Diagnostic Imaging Exchange Workflow	15,300.00
Laboratory Results Exchange Workflow	15,300.00
Cross Community Document Exchange Workflow	7,650.00
Cross Community Diagnostic Imaging Exchange Workflow	8,925.00
Cross Community Laboratory Results Exchange Workflow	8,925.00
GP Notification (EDT) Workflow	3,750.00
GP Notification (DOCMAN) Workflow	4,850.00
GP Notification (HGW) Workflow	3,980.00
National Notification (NRL) Workflow	4,850.00
National Notifications (MESH) Workflow	3,750.00
National Patient Demographic Service (PDS) Workflow	4,850.00
External Web Services Workflow	9,680.00
External IHE Workflow	5,680.00
Event Notification Workflow (DSUB)	3,975.00
NRLS Workflow	3,975.00
Structured Data Workflow (mXDE)	7,650.00

6 NHS IG Toolkit

2T Solutions Limited is compliant with the NHS criteria for information security and governance. 2T Solutions Limited (Organisation Code 8JT66) completes the Department of Health's Information Governance Toolkit on an annual basis and our version 14.1 submission for 2017-2018 has been reviewed and classed as meeting the NHS criteria for information security and governance (Level 3).

7 Client On-Boarding

The Service On-Boarding of Clients is supported by Service Delivery Managers who are PRINCE II and PMP qualified, trained and certified in continuous improvement methodologies (CMMI) and have a proven track record of delivering IT solutions.

"2T Solutions Limited's Spirit is to ensure citizens' medical data is available, accessible, comprehensive and accurate, at the point of clinical care, while ensuring its security and governance are at the forefront of everything we do".