Supplier API Specifications - EMIS

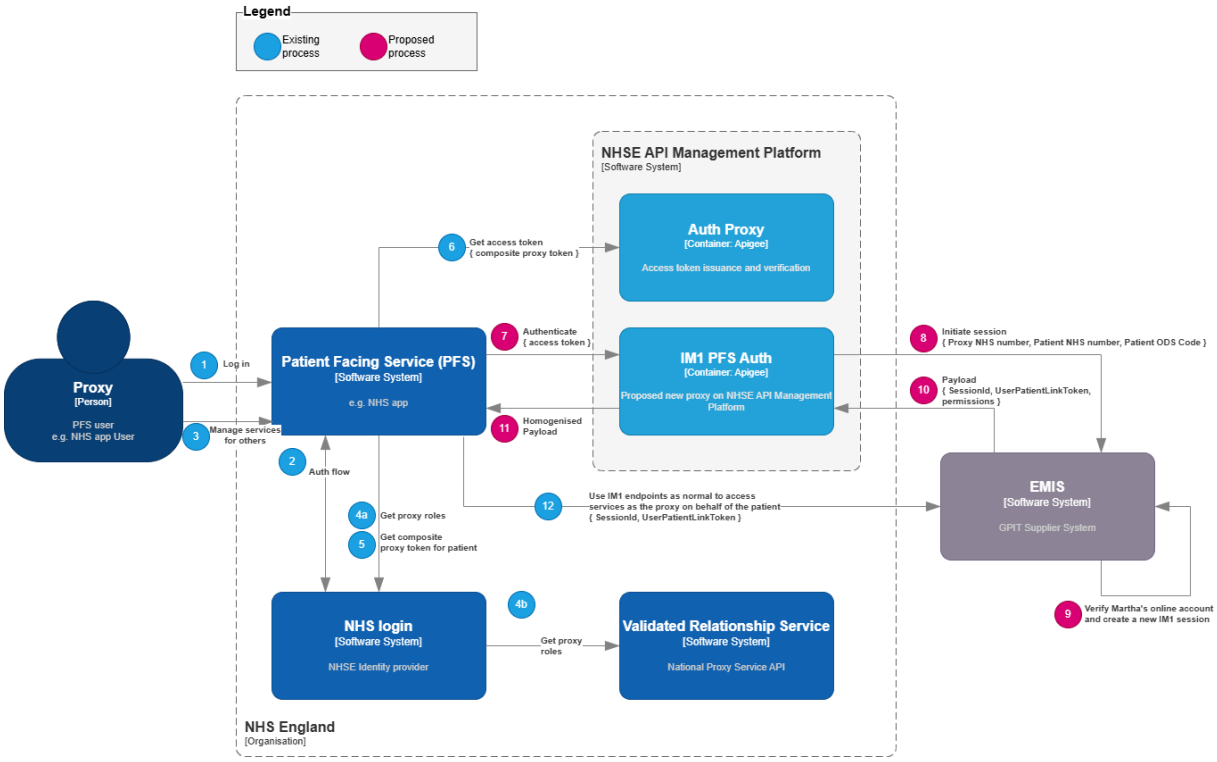
NHS Proxy Access

15 September, 2025

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1 Logical Architecture



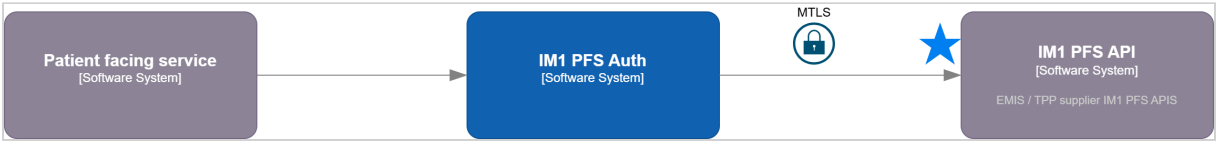
2 Simplified Static Architecture View

Important

IM1 PFS Auth provides a layer of authentication, verifying the NHS login access token provided in the request from the client application. Therefore, direct requests to the EMIS IM1 PFS API implementation should be rejected, only requests that have a successful MTLS handshake having come through the IM1 PFS Auth proxy should be accepted.

MTLS certificates

It is highly recommended that a certificate pair is generated explicitly to secure this connection in order to reduce the impact of a compromised certificate if used across multiple services.



3 API Specification

The API specification below pertains to the new IM1 PFS endpoint provided by EMIS (the interface identified by the blue star in the diagram above). It is the API endpoint that the IM1 PFS Auth API-M proxy will forward requests to

3.1 Key points to note

Expectation is that this endpoint could support the establishment of a session for both a standard user (i.e. user identifier and patient identifier are the same in the request) OR a proxy request where the user identifier and patient identifier are different. This ultimately means that the endpoint will be able to support the establishment of sessions for NHS login authenticated users both as the service works today, but also for the primary goal of enabling cross-practice proxy.

- MTLS used to secure connections between IM1 PFS Auth proxy and the EMIS backend
- Re-used existing EMIS models as much as possible
- New `/nhslogin-user-sessions` endpoint, largely based around the existing `/session` endpoint with some extensions (see below)
- New models
  - CreateNHSloginUserSessionRequestModel
  - CreateNHSloginUserSessionResponseModel
  - ExtendedUserPatientLinkModel - this is based on the existing UserPatientLinkModel, but introduces the following additional properties
    - Identifiers for the user
    - Identifiers for each patient link
    - Permissions assigned to each patient link

3.2 OAS

