

Electronic Prescribing Solution Architecture

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Electronic Prescriptions Project Technical Working Group

The Electronic Prescriptions Technical Working Group (TWG) was established by the Australian Digital Health Agency to co-develop the solution architecture and conformance framework for the Electronic Prescriptions Project. Over 30 members representing the medical software industry, medical practitioners, pharmacists, consumers, Department of Health and jurisdictional members made up the TWG and provided their time and expertise to the successful delivery of this solution architecture document.

Department of Health Electronic Prescribing Project Team

The Department of Health has overall accountability for the Electronic Prescriptions Project, and the Department's Electronic Prescribing Project Team provided valuable guidance and feedback on the draft versions of this solution architecture document.

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1 Introduction

1.1 Purpose

The purpose of the solution architecture is to provide an overview of the architectural components of the end-to-end national electronic prescribing system.

It reflects:

- the scope of the project as defined by the Electronic Prescribing Working Group (EPWG);
- agreed overarching principles of the project that have informed development of the architecture;
- agreed environmental influences that have informed development of the architecture; and
- assumptions that have informed development of the architecture.

It provides details of the behaviours and interactions between system components in different settings and contexts, and considers the behaviours required of the system should key components of the system be unavailable.

It is the outcome of input from stakeholders representing Commonwealth departments and agencies, jurisdictional health departments, clinical groups, consumers, and the healthcare software industry via the project Technical Working Group. It intends to leverage existing applications and infrastructure and as such is *not intended to be prescriptive*. For applications to participate in electronic prescribing, they will need to attest that they meet conformance requirements, which are documented separately.

This document will be updated from time to time based on feedback received. Changes will be managed under governance arrangements for electronic prescribing that are yet to be determined.

1.2 Related Documents

- <u>National Requirements for Electronic Prescriptions 29 September 2017, v1.0; Australian Digital</u> <u>Health Agency</u>
- MSIA Position Statement: ETP 2.0 11 October 2018; Medical Software Industry Association
- Pharmacy Guild of Australia: Position Statement Electronic Prescriptions: October 2018
- Electronic Prescriptions Project Solution Architecture v2.0, Department of Health
- Electronic Prescriptions Conformance Scheme: Australian Digital Health Agency
- National Health Pharmaceutical Benefits Regulations 2017

1.3 Intended Audience

The intended audience of this document is described below:

- Any and all organisations which develop and/or implement software for the preparation, dispensing, communication or management of electronic prescriptions.
- The Commonwealth Department of Health (Department) policy and service delivery business lines to verify that proposed solutions meet their operational and policy needs.
- The Agency to inform the development and implementation of appropriate conformance profiles.
- The Agency to inform the development of the Medicines Blueprint, ensure alignment with the future architecture for national infrastructure and broader digital health systems, EMM Systems etc.
- Services Australia to assist in the development of technical solution designs to accommodate new conformance data within their existing claiming systems.
- Federal, state and territory regulators responsible for legislation relating to the writing and dispensing of prescriptions in Australia.
- The Digital Transformation Agency (DTA) to inform their engagement with the Department on the implementation of electronic prescribing.

This solution architecture document should be read in conjunction with the associated conformance profile document.

1.4 Background

The Australian Digital Health Agency (the Agency) has released Australia's National Digital Health Strategy "Safe, seamless and secure: evolving health and care to meet the needs of modern Australia". The Strategy proposes seven strategic priorities, with outcomes to be achieved by 2022, and a focus on delivering safe, high-quality and effective health services for all Australians.

Under its Medicines Safety strategic priority, the Strategy defines an outcome for improved availability and access to prescriptions and medicines information. The strategy commits that *"by 2022, there will be digitally enabled paper-free options for all medication management in Australia. People will be able to request their medications online, and all prescribers and pharmacists will have access to electronic prescribing and dispensing, improving the safety of our systems."*

The Review of Pharmacy Remuneration and Regulation identified that the implementation of a fully electronic (i.e. 'paperless') prescription system in Australia should be an urgent priority. The Final Report was presented to the Minister for Health in May 2018. Recommendation 2-6 of the Final Report states that:

"The Australian Government should initiate an appropriate system for integrated electronic prescriptions and medicine records as a matter of urgency. Under this system the electronic record should become the legal prescription record. Participation in the system should be required for any prescriber of a PBS-listed medicine, any pharmacist wishing to dispense a PBS-listed medicine and any consumer who is seeking to fill a PBS prescription."

In the Australian Government Response to the Review the Government accepts-in-principle this recommendation.

In the 2018 Budget, the government provided funding to upgrade the e-prescribing software systems used by clinicians to prescribe medicines.

The budget documents state that the measure:

"will support a national electronic prescribing system that will contribute to Pharmaceutical Benefits Scheme (PBS) efficiency, compliance, drug safety and data collection. It will also create an electronic prescribing framework that will provide an option for prescribers and their patients to have a fully electronic PBS prescription as an alternative to paper PBS prescriptions". Electronic prescriptions form part of the broader digital health and medication safety framework and will enable the prescribing and dispensing and claiming (where applicable) of medicines directly from an electronic prescription. Prescribers and their Subjects of Care will have the option to use a fully electronic prescription as an alternative to a paper prescription.

Without affecting existing paper prescribing processes, the aims of the electronic prescriptions initiative are to:

- support Subject of Care safety by reducing the risk of dispensing errors;
- assist health practitioners by reducing unnecessary paperwork;
- improve data for health technology assessments, post market reviews, and broader health policy and planning;
- provide Subject of Care choice in the new digital health world; and
- become a platform to enable digital health services and initiatives.

The implementation of the ICT solution is to enable use of an electronic prescription in all prescribing circumstances, as an alternative to a paper prescription. The Department has undertaken technical scoping and gap analysis activities in consultation with the Agency and the Department of Human Services. The architecture defined acknowledges that adoption of fully electronic prescribing will be iterative and allows for the coexistence of paper and electronic methods.

2 Scope - Electronic Prescribing Project

2.1 Prescriber Types

All eligible prescribers will be able to prescribe a medicine by means of an electronic prescription, including:

- medical practitioners;
- nurse practitioners;
- midwives;
- nursing prescriber;
- partnership registered nurses;
- podiatrists;
- optometrists; and
- dentists

Prescribing by veterinarians and the dispensing of Prescribed Animal Remedies is out of scope.

2.2 Medication Categories

All medicines that can be prescribed, supplied, and claimed by means of a paper prescription will be able to be prescribed, supplied, and claimed by means of an electronic prescription.

These include:

- PBS medicines;
- Private prescriptions; and
- Repatriation PBS medicines.

2.3 Supply Settings

Electronic prescriptions will be able to be used in all supply settings where paper prescriptions can be used, including:

- Community Pharmacies;
- Public and Private Hospitals;
- Residential Aged Care facilities;
- In-home nursing services;
- Mental Health services;
- Aboriginal and Torres Strait Islander Health Services; and
- Day Treatment / Outpatient facilities.

2.4 Authority PBS Prescriptions

Electronic prescribing does not change the intent or method of applying for an Authority for a PBS Prescription.

Authority required prescriptions fall into two categories - Authority required and Authority required (STREAMLINED). Authority PBS prescriptions cannot have retrospective approval, and lack of a required approval means that no PBS/RPBS benefit can be claimed.¹

Prescriptions that require WRITTEN authorisation for PBS subsidy are within scope for electronic prescribing. Processes to submit a written authority prescription in an electronic format are currently not fully supported, with possible operation changes required.

¹ <u>http://www.pbs.gov.au/info/healthpro/explanatory-notes/section1/Section 1 2 Explanatory Notes#Authority-PBS</u> accessed 1 May 2019

For written PBS authorities, the authority request, evidence and a copy of the proposed prescription are required to be sent to Services Australia for approval, and the authority number is added to the prescription prior to issue to the patient. If the prescriber sends the authority request to Services Australia via the post, a paper prescription will be used. If the prescriber uses the Services Australia HPOS system to upload the authority request, there is the potential for the electronic prescription to be used, however further investigation into operation changes is required prior to this being implemented.

Paper prescriptions may continue to be required in the instance where State or Territory Regulation require additional handwritten wording to support the form of prescription or authority (for example, for Schedule 8 medicines in all states but WA).

Any prescription that requires only the authorisation number and no additional hand-written wording may be generated as an electronic prescription, with one item per prescription.

Requirements for retention of authorities by prescribers and pharmacies remain unchanged, but it is noted that this retention will be of an electronic record rather than a paper form.

2.5 Success Statement and Key Principles

The Electronic Prescribing Working Group met via teleconference on 13 December 2018. The following success statement and principles were presented by the Commonwealth at that meeting.

2.5.1 Success Statement

By October 2019 the electronic prescribing project will allow an electronic prescription to progress from prescribe through to dispense and claim in an electronic format. The scope includes implementation of legislative changes (both national and state and territories), facilitation and management of solution architecture, development of conformance frameworks, changes to the claims system and changes to enabling systems software.

2.5.2 Principles

$1. \ \ \text{Security of patient information} \\$

Electronic Prescribing must maintain the safety and privacy of current and historical patient and prescription data.

2. Integrity of prescription data

Electronic Prescribing must maintain the integrity of prescription data to ensure patient safety.

3. Continues to support patient choice of prescriber

Electronic Prescribing will continue to support a patient's right to choose their approved prescriber.

4. Continues to support patient choice of pharmacy

Electronic Prescribing will continue to support a patient's right to choose the pharmacy to supply their medicines.

5. Electronic and paper prescriptions will co-exist as the legal form of the prescription

Electronic prescriptions and paper prescriptions will co-exist. Electronic Prescribing will not be mandatory, and patients and prescribers will be able to choose an electronic prescription.

6. National Electronic Prescribing framework

Paper and electronic prescriptions will continue to meet the relevant Commonwealth and State and Territory legislation.

7. Supports existing PBS policies

Electronic and paper prescriptions will be valid in existing PBS supply settings. Electronic Prescribing is not intended to change the broader PBS policy environment.

8. Leveraging existing assets and capabilities

Electronic Prescribing will support Australia's National Digital Health Strategy principle of leveraging existing assets and capabilities to reuse and build on existing infrastructure. This will reduce the impacts on the processes for clinicians.

3 Concepts and roles for the Proposed System

3.1 User Roles

The following table provides a description of the solution overview roles:

Role	Description
Department of Veterans' Affairs (DVA)	The DVA manages the RPBS and receives RPBS claim data from Services Australia.
Dispenser	A clinician who is permitted to dispense medicines under state regulations. These include dispensers (e.g. pharmacists) that work in the community, hospitals, and contracted pharmacies. Dispensers are an approved supplier under the National Health Act 1953.
Prescriber	Clinicians who are permitted under Commonwealth and state regulations to prescribe a medicine. These may include but are not limited to, general practitioners, specialists, dentists, allied health professionals based in community, residential care and hospital settings. Also see Section 2.1 Prescriber types.
Prescription Delivery Service Operator	The operator of a prescription delivery service (the mechanism through which an electronic prescription is communicated from a prescribing system to a dispensing system).
Private Hospital	A privately managed hospital facility.
Public Hospital	A hospital facility managed by State or Territory government.
Residential Care Facility	As defined in the Aged Care Act 1997, residential care is personal care or nursing care, or both personal care and nursing care, that: (a) is provided to a person in a residential facility in which the person is also provided with accommodation that includes: (i) appropriate staffing to meet the nursing and personal care needs of the person; and (ii) meals and cleaning services; and (iii) furnishings, furniture and equipment for the provision of that care and accommodation; and (b) meets any other requirements specified in the Subsidy Principles.

Role	Description
Services Australia	Services Australia (formerly Department of Human Services- DHS) receives PBS claims from the Approved Supplier. Services Australia receives conformance data for both prescription software and dispensing software in the claim from the Approved Supplier, and conformance register data from the Agency.
	Services Australia sends approved PBS claim data to the Department daily.
Subject of Care	The Subject of Care is the person for whom the medicines described on the prescription are intended.

3.2 System Roles and Concepts

3.2.1 Overview of Components

The following table provides a description of solution overview components and systems and their roles:

Role	Description
Prescription Delivery Service	Clinical Information System software that is used by an authorised prescriber to facilitate the creation of prescriptions.
Prescribing Software	Clinical Information System software that is used by an authorised dispenser to facilitate the retrieval of prescriptions from a Prescription Delivery Service and the dispensing of medicines.
Dispensing Software	Software that is capable of facilitating the dispensing of medications. This software may also be used by a dispenser in order to retrieve prescriptions from a Prescription Delivery Service.
Mobile Application	A mobile application used by the Subject of Care to manage their prescriptions as well as provide the capability to present the prescription token (see below) to the pharmacy.
Mobile Intermediary	Software which manages communication between a Prescription Delivery Service and Mobile Applications. The mobile intermediary's main purpose is to access prescription information contained in one or more PDSs on behalf of mobile application and provide other functionality such as user authentication and validation. The mobile intermediary may also store electronic prescription tokens on behalf of the Subject of Care. In most cases the mobile intermediary will be the mobile application's server component.

Role	Description
Prescription Token (Token)	A piece of information which is used to identify and access an electronic prescription or repeat. The information may be provided to and carried by the Subject of Care in physical form (a piece of paper containing a barcode or QR code) or information (e.g. barcode/QR code, medicine name, medicine strength, number of repeats) sent electronically to a mobile device.
Token Delivery Service	A service which electronically communicates the token from one party to another.
	A token delivery service may be used to send the token to the Subject of Care's mobile device, their agent's mobile device or a residential care system.
	A token delivery service may also be used to send the token from the Subject of Care's mobile device or a residential care system to a pharmacy of the Subject of Care's choice (e.g. online pharmacy).

The following diagram represents at the highest level the various roles undertaken by systems that participate in electronic prescribing.



Figure 1. Electronic prescription system overview

3.2.2 Models of Prescription Delivery Services

Prescription delivery services will be Direct or Open. The following diagram provides a high-level breakdown of the two core models.



Figure 2. Prescription Delivery Service models

The following table provides a description of the Prescription Delivery Service models and systems:

	Role	Description
	Prescription Delivery Service (PDS)	A prescription delivery service is the mechanism through which an electronic prescription is communicated from a prescribing to a dispensing system.
	Open Prescription Delivery Service	A prescription delivery service that accommodates choice of supply by the Subject of Care.
		An Open Prescription Delivery Service may be constructed using a variety of implementation patterns provided they all interoperate. Interoperate means where an electronic prescription sits in one Open Prescription Delivery Service, it can be accessed for use by a dispenser who is connected to a different Open Prescription Delivery Service.
	Direct Prescription Delivery Service	A prescription delivery service that communicates an electronic prescription directly to a nominated dispenser. Such a mechanism is only permitted under circumstances where a choice of dispenser is made before prescription such as during the admission to a residential care or hospital facility.
	Prescription Exchange Service (PES)	An implementation pattern of an Open Prescription Delivery Service that provides a prescription store accessible to prescribers and dispensers.
		Electronic prescribing systems lodge electronic prescriptions into the store. Dispensers may access the electronic prescriptions in the store and lodge dispense information.

3.3 The "Location" of an Electronic Prescription

In a community context, the electronic prescription issued from the GP system (e.g.) resides in an Open Prescription Delivery Service (PDS) where it is housed pending retrieval by an authorised dispenser. In order to be considered an electronic prescription, it must contain all the data elements as specified in the National Health Act (PBS Regulations), together with additional data as may be required by State and Territory Regulation. These data elements specifically include the Conformance ID of the Prescribing System, Dispensing System and PDS, together with the Globally Unique Prescription ID (unique PBS electronic prescription number).

When it is retrieved from the Open PDS, the electronic prescription is resident in the Dispensing system where it may be processed. It is no longer available for retrieval from the Open PDS as this would permit multiple dispensing from the same prescription. If the Dispense is abandoned (does not complete) the electronic prescription in the Open PDS becomes available again for retrieval. In effect, it is "returned" from the Dispense System back to the Open PDS.

3.4 Data Classification

Electronic prescription data are considered "Unclassified" by government departments and agencies, with a Dissemination Limiting Marker of "Sensitive: Personal".

4 Architecture Context

4.1 Business Requirements

The Business Requirements for the solution architecture are outlined in the *Requirements: Electronic Prescriptions Project* document prepared by The Department. These contain requirements from the Department's *IT Gap Analysis, Objectives and Outcomes* and requirements from National Requirements for Electronic Prescriptions (www.digitalhealth.gov.au/implementation-resources/ehealth-foundations/electronic-

prescribing/DH-2625-2017)

4.2 Overarching Project Principles

4.2.1 Safe

The system shall ensure that medication information is captured, transmitted and rendered as the prescriber intended and, in a manner, legible and understandable to the dispenser which is equal to, or better than that afforded in current practice.

4.2.2 Secure

The solution shall ensure that the potential for fraudulent activity is minimised, at least to the extent afforded in current practice.

4.2.3 Private

The system shall ensure that the medication information is accessible only to those who have a need to know and for the benefit of the Subject of Care in a manner which is equal to, or better than, that afforded in current practice.

4.2.4 Acceptable and Sustainable

The system shall ensure that the processes for prescribers, dispensers and Subjects of Care are no more onerous than those afforded in current practice.

4.2.5 Accessible

The system shall ensure that medicines may be made available to Subjects of Care without additional delays, irrespective of the mode of prescription (paper or electronic), and irrespective of the digital literacy or abilities of users.

4.2.6 Flexible

The system shall accommodate a variety of implementations and solution specific architectures. All existing modes of prescription will persist, in concert with one or more electronic methods.

4.2.7 Supports Innovation

The system shall afford industry the scope to innovate the architectures, methods and technologies by which electronic prescriptions are delivered and by which systems interoperate, to ensure electronic prescriptions become the method of choice for prescribers, dispensers and Subjects of Care (subject to adherence with the aforementioned design objectives).

4.3 Agreed Environmental Influences

4.3.1 Legislation and Regulation Compliance

Compliance with Commonwealth and State legislation and regulation

Rationale:

All electronic prescribing participants are required to comply with the Privacy Act 1988, National Health Act 1953, PBS regulations and individual state and territory drugs and poisons Acts.

Implications:

- Requirement to operate data collection and storage mechanisms in a manner consistent with privacy legislation as defined in the *Privacy Act 1988* and/or state or territory privacy legislation;
- Requirement to operate prescriptions in a manner consistent with Health legislation as defined in the *National Health Act 1953*;
- Requirement to manage data and information in a manner compliant with record keeping legislation as defined in the *Archives Act 1983*; and
- Requirement to operate in a manner consistent with the Healthcare Identifiers act as defined in the *Healthcare Identifiers Act 2010.*

4.3.2 National Digital Health Strategy

The architecture defined will align with and promote the National Digital Health Strategy

Rationale:

The National Digital Health Strategy has been developed through detailed consultation and coproduction with patients, consumers and carers, and the healthcare professionals, industry, organisations and innovators who serve them. It has been approved by the Council of Australian Governments (COAG) Health Council.

Implications:

It is critical that with the introduction of electronic prescriptions, consumers are provided with choice, control and transparency.

4.3.3 Mutually Exclusive Prescription Types

For any prescription, there will be either a single paper prescription or a single electronic prescription, never both

Rationale:

Electronic prescribing will introduce an alternative, fully digital form of the legal instrument issued by prescribers that authorises dispensers to provide medicines to Subjects of Care.

For dispensers to be able to dispense prescribed medicines safely and according to relevant legislation and guidelines, it is imperative that there is only one legal instrument that can be acted on to dispense the medicine, and that the "source of truth" of the current state of the prescription, including dispense history and repeat authorisations for example, is clear.

Implications:

- If a prescription is initially issued as a paper prescription, it will remain a paper prescription and follow current workflows for the life of that prescription. A paper prescription cannot be converted to an electronic prescription.
 - Paper to Electronic: It is assumed that regulation will require obligations be placed on healthcare organisations which create electronic prescriptions. There can be no guarantee that these obligations were met when the paper prescription was created. Electronic prescriptions carry data elements (such as HPI-O and Conformance Identifiers) in addition to those of a paper prescription. Furthermore, these required elements cannot be "reconstituted" from an ETP message as the ETP message has no legal standing.
 - Electronic to Paper: A key feature of a paper prescription is that it conveys legal authority through the presence of the prescriber's signature on the paper. There is

no way to "convert" the authority vested in an electronic prescription to a paper prescription (i.e. recreate the prescriber's signature).

 Where it is an electronic prescription, supply will be against the electronic prescription, not the paper-based Evidence of Prescription form, information rendered via a third-party application, or token carried by the Subject of Care.

4.3.4 Prescription Delivery Service Consent

No requirement for additional Subject of Care consent for electronic prescriptions to be sent to a Prescription Delivery Service

Rationale:

The electronic prescribing solution architecture does not require increased disclosure of information concerning the Subject of Care to parties beyond those for paper prescriptions supported by ETP. The architecture describes optional concepts (such as Subject of Care agent systems) that may access this information but only with explicit consent. Use of these systems is not necessary for the operation of electronic prescriptions.

Implications:

- The electronic prescription, like the Electronic Transfer of Prescriptions (ETP) data, will not be exposed to a 3rd party without consent or legal authority.
- The prescriber or dispenser will not be able to search an Open Prescription Delivery Service for electronic prescriptions the electronic prescription can only be retrieved using the token.
- Consent capture at prescriber will operate per current processes.
- If the Subject of Care misplaces a token, it is effectively the same as losing a paper prescription (status quo).

4.3.5 Mobile or Web Application Consent

Any Subject of Care mobile or web application will be required to obtain Subject of Care consent for the prescription delivery service operator to provide the decrypted electronic prescription data

Rationale:

For the electronic prescription to be accessed and information about the electronic prescription to be made available through a Subject of Care's mobile or web application, Subject of Care consent will need to be captured by the Subject of Care mobile or web applications and provided to the service operators.

5 Solution Architecture Assumptions

The following assumptions have informed development of the solution architecture.

Assumption	Implications
The legal environment enacted through legislation and regulation	• The electronic prescription is the source of truth and legal instrument for dispensing services.
to support electronic prescribing will support the electronic	 An electronic prescription shall remain immutable and never be altered or changed.
prescription as a legal instrument for dispensing purposes.	 Records created in relation to dispensing activity will be associated with the original electronic prescription and made available to subsequent dispensers.
	 The authority to dispense is obtained through reference to the electronic prescription (original and repeat) and any associated dispense records.
	 Any token supporting retrieval of the electronic prescription is not an authority/legal instrument for dispensing.
Repeat authorisations are not a separate artefact or transaction in an electronic prescription context	 The original electronic prescription, together with the dispense records provide all the information and authority necessary for any further dispensing activity by a dispenser. The SoC will be provided with information at the time of supply that indicates the number (if any) of further supplies available.
Deferred supply is not a separate artefact or transaction in an electronic prescription context	 The original electronic prescription, together with (all) the dispense records provide all the information and authority necessary for any further dispensing activity by a dispenser. Should the SoC not want supply of one of the prescriptions retrieved using the token, they will be provided with information that indicates the number of further supplies available.
Delivery Services may not be assumed to provide any functionality or capability that supports validation of the content	 A Delivery Service will not accept a malformed or incomplete electronic prescription but may not be assumed to provide any validation of, or add value to, the content of the message.
of the prescription	 Validation of the content of the electronic prescription will be done by the authorised prescriber with support, as required, by their prescribing software.
	 Validation of the content of the electronic prescription will be done by the dispenser at the time of dispensing with the aid of real time feedback from PBS online (where applicable).

Assumption	Implications
Prescribing regulatory and legislative requirements for prescription controls are managed by prescribing systems & user expertise	 Prescribing restrictions, including authorisations, repeats and quantity controls are managed through expertise of the authorised prescriber with support, as required, by their prescribing software.
expertise	 Individuals who prepare electronic prescriptions are authorised to do so under relevant regulation.
	 Organisations who provide their staff with access to software capable of producing electronic prescriptions must do so only for identified and authorised prescribers.
Dispensing regulatory and legislative requirements for	The PDS will not validate prescription content (paper or electronic prescriptions).
prescription controls are managed by dispensing systems & user	 Individuals who dispense are authorised to do so under relevant regulation.
expertise	 Dispensing restrictions, including authorisations, repeats and quantity controls are through expertise of authorised suppliers with support, as required, by their dispensing software.
The Subject of Care must be provided with an electronic prescription token at the time the	 The SoC will leave the consultation with a valid electronic or paper token that will allow retrieval of the electronic prescription.
electronic prescription is created when utilising an Open	 If it is not possible to provide the SoC with an electronic token, they will be provided with a paper token.
Prescription Delivery Service	 A SoC may choose to be issued a paper token.
	• The token may be accompanied by supplementary information such as a summary of medicines prescribed.
The Subject of Care must have a means of identifying medicines prescribed	 Where prescription information is not provided to the Subject of Care by the prescriber, they shall have a means of obtaining that information using the token provided.
The availability of electronic prescriptions for a Subject of Care	 Not all Subjects of Care participate in the My Health Record system or qualify for Medicare Benefits.
is independent of other national programs such as the My Health Record (MHR) or the Pharmaceutical Benefits Scheme (PBS).	 Electronic prescribing shall be accessible to all, irrespective of their participation in such programs, however electronic prescriptions have a dependency on the Subject of Care's Individual Healthcare Identifier (IHI).
Paper prescriptions, such as the current practice for paper scripts, will continue to be supported	 Prescribers may issue either a paper prescription or electronic prescription, subject to their service and SoC preference.
	 The introduction of electronic prescribing will in no way change the operation of paper prescriptions.

Assumption	Implications
Paper prescriptions and electronic prescriptions are mutually exclusive	 Paper prescriptions and electronic prescriptions cannot simultaneously represent the same prescription. For example, the prescriber shall not issue both an electronic prescription and a paper prescription for the same medicine for the SoC.
	 Paper and electronic prescriptions facilities are distinct; they cannot convert, merge or join to accomplish the same service objective over the life of the prescription.
ETP shall continue to operate independently of electronic	 Paper prescriptions shall continue to be supported by ETP as required.
prescriptions	• The same PES infrastructure may be used to convey both ETP and electronic prescriptions.
	 Prescription Exchange Services which convey electronic prescriptions are subject to the electronic prescription regulations and conformance requirements.
ETP specific Mobile Applications shall continue to operate	• Consumer management of paper prescriptions shall continue to be supported by mobile applications.
independently of electronic prescriptions	 The same mobile application infrastructure may be used to support Subject of Care management of electronic prescriptions.
C	 Mobile application infrastructure which is used to support Subject of Care management of electronic prescriptions are subject to electronic prescription regulation and conformance requirements.
Dispenser discretion to supply shall be permitted in scenarios where access to the electronic prescription is temporarily unavailable	 In circumstances where the dispenser is unable to access the electronic prescription (due to technical difficulty), they may if allowed by state legislation - exercise their discretion and provide emergency supply, or they may request verbal authorisation to dispense from the prescriber (in line with current practice).
	 In such circumstances, the dispenser shall NOT rely on medication information which may accompany the electronic prescription token. Confirmation of medication information may be from the record within the PDS, or directly from the prescriber.
The requirement for authorised agents to collect prescriptions on behalf of SoCs will remain and be available for electronic	• Dispensers may exercise their judgement under applicable regulation as to whether to supply to a person presenting a token for dispense considering they may be, or are an agent of, the Subject of Care.
prescriptions	 As per applicable regulation, dispensers may request and record evidence of identity as appropriate.

Assumption	Implications
A prescriber can exercise choice to offer a Subject of Care an electronic prescription or paper prescription	 A prescriber may exercise their judgment to determine whether or not to issue an electronic or paper prescription. A prescriber may choose not to offer electronic prescriptions.
Subjects of Care are not required to provide additional consent to electronic prescriptions	 PDS Operators are prohibited from accessing electronic prescription information unless compelled to do so under court order or as required under legislation. The electronic prescriptions solution architecture will not expose a Subject of Care's personal information to any parties in addition to those involved in paper prescriptions. The electronic prescription solution architecture does not expose more personal information to participants than is currently exposed to those participants by paper prescriptions.
Subjects of Care will be required to consent to the provision of their personal information to parties supporting their electronic access to electronic prescription information	 Where Subjects of Care elect to access their electronic prescription information using electronic services, the providers of such services will require access to their information. PDS Operators may allow such service providers to access electronic prescription information. Mobile Application Intermediary providers may request and provide electronic prescription information to a consumer where they have received informed consent from the Subject of Care or they have reasonable grounds to believe that the consumer is an authorised agent of the Subject of Care. Mobile and Web Application Service providers are subject to all applicable electronic prescribing regulations and conformance requirements.
Retention of legal instrument (electronic prescription) for audit purposes will remain the obligation of the dispenser	 Dispensers are currently obliged to retain the paper authority for dispensing for a period (two years) to support PBS audit and investigation. Where the requirement for retention under state-based regulation exceeds the requirement under PBS, that retention period should be observed. As and where required by regulation, all participating software must be able to maintain an archive/audit log to support this requirement for dispensing against electronic prescriptions.
Retention requirements of an electronic prescription and subsequent dispense records will be determined by legislation	• An electronic prescription, and its associated dispensing records, may be deleted from the Prescription Delivery Service at some time following expiry of the electronic prescription.

Assumption	Implications
The privacy notice that is currently provided on the reverse side of a paper prescription will also be provided to a consumer who receives an electronic prescription	 Information provided to a consumer accompanying an electronic prescription must allow the consumer to read the text that currently forms the Privacy Notice printed on the reverse side of paper prescription stationery.

6 Current State Architecture

6.1 Current State Overview

The following diagram outlines the current state community architecture at a high-level.



Figure 3. Logical diagram of current state architecture at a high-level

6.2 Current State Process

# Interaction	Data
1 ETP upload – on creation of new ETP	Authentication: Prescriber system PES credential. Send: ETP data within structured message to PES, with the clinical content encrypted the prescriber agent encryption key and the transaction encrypted using PES public key. Receive: Notification.
2 Print prescription for the Subject of Care	Printed prescription data.

#	Interaction	Data
3	Inter-PES transfer – on retrieval of ETP by a Dispensing System if the PES does not have the ETP stored	 Authentication: PES credential. Send: Message requesting the ETP with Delivery Service Prescription Identifier (DSPID). Receive: ETP data within structured message, with: clinical content decrypted using the host PES agent key; transaction transformed to the requesting PES format; clinical content encrypted using the requesting PES agent key; and the transaction encrypted using requesting PES public key.
4	 Inter-PES transfer – on upload of dispense record if: the PES does not have the ETP stored 	 Authentication: PES credential. Send: Dispense record data within structured message with: clinical content decrypted using the requesting PES agent key; transaction transformed to the host PES format; clinical content encrypted using the host PES agent key; and the transaction encrypted using host PES public key. Receive: Notification.
5	ETP download by dispensing software	Authentication: Dispenser system PES credential. Send: Request with DSPID. Receive: ETP data within structured message.
6	Dispense record upload to PES	Authentication: Dispenser system PES credential. Send: Dispense record data within structured message, with the clinical content encrypted using dispenser agent encryption key and the transaction encrypted using PES public key. Receive: Notification.
7	PBS Claim authorisation on dispense	Authentication: Dispenser's Medicate site certificate. Send: Message requesting authorisation that PBS claim is payable (as per Services Australia specifications). Receive: Notification of whether claim is payable.

#	Interaction	Data
8	PBS Claim lodgement to Services Australia	Authentication: Dispenser's Medicare site certificate.
		Send: PBS claim data (as per Services Australia specifications).
		Receive: Notification.
9	Send PBS and RPBS claim data to the	Send: PBS and RPBS claims data.
	Department	Receive: Notification.
10	Send RPBS claims data to DVA	Send: RPBS claim data (as per the Department/DVA specifications).
		Receive: Notification.

7 Future State Architecture

7.1 Community Context

The Community Context is defined by those circumstances where the Subject of Care exercises their choice of supply. In other words, the Subject of Care is prescribed medicines which they are free to have dispensed at a pharmacy of their choosing. This covers primary care prescribing and community pharmacy dispensing, but importantly also applies where medicines are prescribed in outpatient settings or on discharge from hospital when the Subject of Care can fill the prescription at a pharmacy of their choice. It also applies in residential care settings where the resident exercises their choice to manage their own prescription supply.

To support this choice, information to retrieve the prescription can be in the form of a paperbased Evidence of Prescription form (including token) or an electronic token carried by the Subject of Care (or their Agent). These provide the dispenser with access to the prescription lodged with an Open Prescription Delivery Service where the prescription is accessible to all potential dispensers.



Figure 4. Electronic Prescriptions Future State- Community Context.

In the Community Context, prescribers are prohibited from "channelling" prescriptions to specific pharmacies, thereby denying Subject of Care choice.

It is worth noting that certain healthcare facilities such as private hospitals or Residential Care Facilities may, subject to consent, obtain the bulk of their supply on behalf of their Subjects of Care through contractual arrangements with community pharmacies. In such cases, prescription delivery may occur via any choice of prescription delivery service. However, as noted above, where prescriptions are provided on discharge or residents exercise their choice of supply, these facilities may provide paper prescriptions or issue electronic prescriptions via Open Prescription Delivery Services.

7.1.1 Community Electronic Prescribing

7.1.1.1 Community Electronic Prescribing Pre-conditions

In order for an authorised prescriber to be able to create an electronic prescription, the following steps are required:

- 1. The Healthcare Organisation must have obtained and installed clinical software which is conformant with the requirements for electronic prescriptions.
- 2. The Healthcare Organisation must have contracted with a conformant Open Prescription Delivery Service for the delivery of Electronic Prescriptions and established a connection with its clinical software.
- 3. The Healthcare Organisation must have defined and implemented a security policy which governs the Access to electronic prescribing capability and information in its clinical software.
- 4. The Healthcare Organisation must have authorised employees as approved prescribers and provisioned them with access to the electronic prescribing capability.

7.1.1.2 Community Electronic Prescribing Process

Prescribers in a community context such as General Practice will not perceive any variations in the process for the recording of medicines to be prescribed in their clinical systems.

The point of departure in current process will occur at the time in the consultation when the prescription is produced.

At this point, there are a series of decisions required:

- 1) Should the prescription be provided as a paper prescription or an electronic prescription? Considerations include:
 - Does the prescription carry specific legislative requirements precluding it from being generated as an electronic prescription, such as Written Authorities?
 In these circumstances, a paper prescription must be provided.
 - b. Does the prescriber have the capability and willingness to produce an electronic prescription?

Prescribers have a choice as to whether to provide electronic prescriptions.

- c. Does the Subject of Care have the desire to receive an electronic prescription? Subjects of Care have the right to express a specific choice of form.
- 2) If an electronic prescription is provided, in what form? The Subject of Care may be provided with a token. Delivery options include:
 - Plain paper containing the token (barcode) and information pertaining to the medicine(s) prescribed (paper-based Evidence of Prescription form with token).
 The plain paper contains similar information as would be found on a paper prescription except for:
 - i. Prescriber's signature The Evidence of Prescription form is not a legal prescription and must not be perceived as such by an authorised dispenser.
 - Any other details which the Subject of Care may not find relevant or informative may be omitted. For example, prescriber Number, PBS Entitlement Number, Authority Number, Local Prescription Number and/or Authority Approval Number.
 - Electronic token delivery service such as SMS/MMS or Email.
 Only a link to the token itself (barcode or QR code) and other limited information (name of the Subject of Care, medicine name, medicine strength, number of repeats, privacy notice) may be transmitted in this manner. This will enable redemption of the prescription by an authorised dispenser but will not expose any personal or clinical information if the electronic communication is misaddressed.
 Should the Subject of Care or their agent wish to access the information regarding

their prescribed medicines, they may use the token to retrieve the information using a conformant system (e.g. Mobile Application).

All clinical systems with electronic prescribing capability will have the ability to produce a plain paper form of token.

Considerations regarding choice of token delivery include:

- a. Is the Subject of Care physically able to receive a paper token?
- b. Does that Subject of Care have their prescriptions managed by an agent (e.g. Residential Care Facility) who is not present and able to receive a paper token?
- c. Does the Subject of Care or their agent have a device (e.g. smartphone or computer system) capable of receiving the electronic token?
- d. Does the Subject of Care want to receive the token electronically?
- e. Does the provider have the capability to send the token electronically?

Note: If Subjects of Care or their agents are in possession of their token, they may use their smartphone or computer systems to scan the barcode/QR code, or manually enter the barcode/QR code ID (if available), on a paper token at any time.

7.1.1.3 Community Electronic Prescribing Exception Conditions and their Treatment

- Open Prescription Delivery Service Unreachable/Unavailable Prescribing software systems may be able to detect when the Open Prescription Delivery Service is unavailable or unreachable (e.g. internet unavailable). In such circumstances, the prescriber should be made aware in advance, so they may proceed directly with the preparation of a paper prescription.
- 2) Electronic prescription is slow to lodge or fails to lodge in the prescription delivery service

The Subject of Care does not have a redeemable prescription until it is lodged in the prescription delivery service. Prescribing software systems should provide an indication which confirms that the electronic prescription has been successfully lodged in the prescription delivery service. If the prescriber has not received confirmation within an acceptable period, they may instruct their prescribing software to cancel the electronic prescription and produce a paper prescription.

The time which a prescriber finds "acceptable" may vary from individual to individual and in accordance with circumstances.

Where, for example, the pharmacy is immediately adjacent to the practice, it may be important to confirm lodgement quickly. Where the internet connection is slow and the pharmacy some distance away, it may be acceptable to allow considerably more time.

Note: Prescribing software systems will continue to retry until lodgement is successful or the operation is cancelled by the prescriber. As such, there is no obligation on prescribers to wait for confirmation, although it would be good practice to ensure lodgement has been successful before the Subject of Care leaves the consultation.

3) Prescriber identifies a prescribing error

While different software systems may have different methods for handling electronic prescription amendments, the Subject of Care or their agent should always be provided with a replacement token. This will ensure that the Subject of Care or their agent is made aware of the accurate and up-to-date prescription information.

Note: Depending on how the prescribing software manages the amendment, the token

itself may, or may not, be different to the original.

Note: An amendment to an electronic prescription is only possible prior to the prescription having been dispensed.

4) Electronic prescription unobtainable when the Subject of Care presents at dispenser This scenario may arise if the Subject of Care presents to a pharmacy before the electronic prescription has been successfully lodged or the pharmacy is unable to access the Prescription Delivery Service (e.g. internet unavailable). In such an event, the pharmacy is unable to dispense autonomously as the paper form or token for an electronic prescription does not carry any legal authority.

The prescriber must, through due diligence processes, provide confirmation of the prescription details and that it was created as an electronic prescription. The prescriber may have a record in their prescribing system when the electronic prescription was successfully lodged. The pharmacy may, where regulations permit, elect to dispense as an urgent case (upon verbal confirmation from the prescriber), and reconcile with the electronic prescription when it becomes available.

Where regulations do not permit, the prescriber may be required to cancel the electronic prescription and create a paper prescription.

5) Electronically transmitted token not received

If it is agreed that the token be sent electronically to the Subject of Care or their agent, but it is not received, the prescriber should immediately confirm the electronic address (mobile number, email address, etc.) with the Subject of Care and instruct their prescribing system to re-send the token. If the failure is persistent, the prescriber should instruct their prescribing system to cancel the electronic prescription and create a paper prescription.

6) Subject of Care changes their mind

In the event that the Subject of Care, having been provided with an electronic prescription changes their mind and requests a paper prescription instead, the prescriber may instruct their prescribing system to cancel the electronic prescription and create a paper prescription. In the event that the Subject of Care, having been provided with a paper prescription changes their mind and requests an electronic prescription, the prescriber may destroy the paper prescription and instruct their prescribing system to create an electronic prescription.

Note: This "change of form" is only possible prior to the prescription having been dispensed. If the prescriber is unclear regarding this fact, they may choose to deny the request.

7) Subject of Care loses their token

If the Subject of Care, or their agent, has lost the token they will be unable to redeem the prescription. The prescriber may create a new prescription under these circumstances without cancelling the original prescription. A prescriber may choose to reissue the original token if they reasonably believe the token to be valid and operational (e.g. dispense has not yet occurred). A prescriber should have confidence the token in the Subject of Care's possession is valid.

7.1.2 Community Electronic Dispensing

7.1.2.1 Community Electronic Dispensing Pre-conditions

In order for an authorised supplier to be able to dispense an electronic prescription, the following steps are required:

- 1. The Healthcare Organisation must have obtained and installed clinical software which is conformant with the requirements for electronic dispensing.
- 2. The Healthcare Organisation must have contracted with a conformant Prescription Delivery Service for the delivery of electronic prescriptions and established a connection with its clinical software.
- 3. The Healthcare Organisation has installed equipment necessary to acquire the tokens used to access electronic prescriptions. This includes, but is not limited to, equipment that can scan tokens presented as barcodes on mobile devices or on paper.
- 4. The Healthcare Organisation must have defined and implemented a security policy which governs the access to electronic dispensing capability and information in its clinical software.
- 5. The Healthcare Organisation must have approved employees as approved dispensers and provisioned them with access to the electronic dispensing capability.

7.1.2.2 Community Electronic Dispensing Process

Dispensers in a community context such as community pharmacy may see more substantive variations in process for supply against an electronic prescription.

The following are considerations for pharmacies engaged in electronic prescribing and places where dispensing software can alleviate potential issues:

1) Method of presentation

Community pharmacy may receive requests for prescription supply in the following forms:

a. Paper Prescription

Paper prescriptions will persist, and pharmacies will be obliged to dispense against paper prescriptions as they presently do.

Paper prescriptions may carry an ETP barcode which may be scanned to facilitate the retrieval of prescription details into the dispensing system.

As per current state, the paper prescription is a legal instrument and information acquired electronically in these circumstances has no legal standing.

b. Evidence of Prescription

Subjects of Care who elect to receive electronic prescriptions may also elect to receive the information about the prescription and the token in paper form. The Subject of Care provides the token in paper form to the pharmacist. The pharmacist scans the token (barcode) just as they would on a paper prescription. The Subject of Care may also choose to present the Evidence of Prescription to the pharmacist.

In this case, however, the Evidence of Prescription or token has no legal standing. It is the electronically retrieved prescription (retrieved using the token), displayed on the dispensing system, that is the legal instrument. Pharmacists may NOT provide supply based on information contained on the Evidence of Prescription. This information is intended for the Subject of Care and may NOT be construed, in any way, to constitute a legal authority to dispense.

c. Token presented on Mobile Device

Subjects of Care may elect to manage their tokens on their mobile devices. The mobile device will display the token in a manner suitable for scanning using existing pharmacy equipment (similar to an airline boarding pass on a mobile device). Pharmacies may need to consider the physical location of scanning equipment and display screens. Subjects of Care may be unwilling to surrender their mobile devices for scanning and there is a risk that the mobile device's screen could lock if there is a delay between acquisition and scanning.

As above, there may be information present on the mobile device which refers to

prescribed medicines. This information is intended for the Subject of Care and may NOT be construed, in any way, to constitute a legal authority to dispense.

- d. Token received electronically Where the pharmacy has implemented the capability, Subjects of Care may elect to send their tokens electronically to a pharmacy. The pharmacy may use the token to retrieve the electronic prescription. This is an optional facility.
 As above, there may be information present on the electronic communication which refers to prescribed medicines. This information is intended for the Subject of Care and may NOT be construed, in any way, to constitute a legal authority to dispense.
- 2) Prescriber's original instructions

All paper prescriptions, including repeat authorisations, are attached to or carry the original instructions of the prescriber. For an electronic prescription, the prescriber's original instructions are available ONLY in electronic form via the dispensing system having been obtained from a conformant prescription delivery service.

While there may be information accompanying the token presented by the Subject of Care on the Evidence of Prescription, this represents advice for the Subject of Care and may NOT be construed, in any way, to constitute a legal authority to dispense.

When the token is used by the dispensing system to retrieve the electronic prescription, the dispensing system must display:

- a. The details contained on the original prescription
- b. The "status" of the electronic prescription (e.g. "cancelled")
- c. The details contained in the previous dispense record (if any)
- d. Annotations that may have been recorded by previous dispenser(s) (if any)
- 3) Evidence of ownership

As is the case currently, dispensers in community pharmacy may assess the person presenting the prescription and establish a reasonable expectation that the person has a right of supply. For example, the pharmacist has a reasonable belief that the person presenting the prescription is, or is an authorised agent of, the person for whom the medicine is intended.

When a person presents a paper prescription, part of that assessment is simply that the person is physically in possession of an artefact (the prescription) that is difficult to forge, difficult to copy, and is signed by the prescriber. There may be lesser assurance if the person is in possession with a paper or electronic token.

Dispensers may, as a result, place greater reliance on other methods of verification. Where, for example, the electronic prescription carries information which does not accompany the token, dispensers may consider this information in the context of the person. Date of birth may, for example, be available in the electronic prescription but will not be carried with the token.

Where a token is acquired electronically, and the Subject of Care is not physically present, dispensers may choose to rely on other methods. For example, end-user identity verification undertaken by the organisation providing the token delivery service.

4) Selection of medicines required

On presentation of a paper prescription at the "drop-off" counter, Subjects of Care may advise the pharmacist which of the items on the paper prescription they wish to have dispensed.

This process may be replicated if the Subject of Care presents a paper-based Evidence of Prescription form with token.

If the token is presented by other means, the dispenser may only see the list of medicines available when the token is used to retrieve the electronic prescription. If this occurs in a different location in the pharmacy, additional steps may be required to confirm which items are required.

5) Decision to not supply

Where the dispenser retrieves the electronic prescription, which is valid and available for dispensing, but decides not to dispense (for example, they are out of stock of the medicine, or the Subject of Care decides that they do not want to wait), the dispenser will cancel the dispensing process. The electronic prescription, which will have been locked when retrieved from the Prescription Delivery Service, will be returned to an unlocked state, and be available for dispensing at another time.

6) Authorised variation of prescriber instructions

There are situations when, if and as permitted under regulation, the dispenser may need to query and confirm the prescriber's instructions.

If permitted under regulation, a dispenser may accept a prescriber's verbal variation to instructions and dispense accordingly. When doing so, they may be required to annotate the original prescription with a note indicating the reason for variation between the original instructions and the record of supply. Such annotations are intended for subsequent dispensers as an indication that supply was not made in error. Such annotations must, in the case of an electronic prescription, be recorded in the dispensing system and made available to any subsequent dispenser.

7) Medicine(s) dispensed

The dispenser will complete their dispensing processes and update their local dispensing system to show the medicine(s) as dispensed. At this point, the dispensing system will upload a dispense record to the Prescription Delivery Service to reflect the dispense event.

8) Dispense amendment

While different systems may have different approaches to managing amendment of a dispense record (e.g. because of a dispensing error or because the Subject of Care has declined supply), information reflecting the correct dispense event should be communicated to the prescription delivery service. This may be achieved by cancelling the original dispense record and issuing the correct dispense record.

9) Receipt of supply

Where regulation requires a receipt of supply record, manual capture is the current proposed solution.

10) Provision of new tokens

A new token will be required for subsequent repeats and deferred supply. If there are subsequent dispenses available on the electronic prescription, the pharmacy must provide the Subject of Care with a new token that may be used by a subsequent dispenser to retrieve the repeats or the original prescription item in the case of deferred supply.

Like the token provided with a prescription, new tokens must not be construed by a subsequent dispenser as representing a legal authority. The legal authority is the original electronic prescription as authored by a prescriber and must be retrieved from a prescription delivery service when using a token corresponding to a repeat or deferred supply.

Depending on the capability of the dispensing software and the method by which the prescription token was presented, the dispenser may print and provide a paper token or new Evidence of Prescription to the Subject of Care and/or issue the new token via electronic means.

If the dispense record has been amended, the Subject of Care should always be provided with a token that allows access to the subsequent repeats or deferred supply.

11) Token storage (prescriptions held on file)

Where the Subject of Care obtains supply for repeat prescriptions from the same pharmacy, they may request that the pharmacy retain their paper prescription. This is largely for the convenience of the Subject of Care and may mean that the prescription is less likely to be lost. In similar fashion, a Subject of Care may request that the pharmacy retain their token on file.

In this case, however, the pharmacy would retain (electronically or physically) the token used to retrieve their electronic prescription.

Prior to supply, the token must be used to retrieve the legal electronic prescription and confirm that the prescription has not been dispensed elsewhere.

At each dispense, a new token is generated and, at the request of the Subject of Care, stored for subsequent use.

12) Confirmation of receipt of dispense event from the prescription delivery service

In the prescribing setting, significant emphasis is placed on the Subject of Care having reliable access to the electronic prescription from the time they leave the consultation. This means that it is recommended that the prescriber is proactively notified if the electronic prescription is not acknowledged as loaded to the prescription delivery service so that they may choose to instead prepare a paper prescription.

This same level of emphasis is not imposed on acknowledgement of receipt of the dispense record in the prescription delivery service in the dispensing setting for a number of reasons:

- In the vast majority of cases, the Subject of Care will have accessed the necessary medicines.
- Time will pass before they attempt to have them dispensed again (in the case of a repeat authorisation).
- The dispenser does not have the ability to revert from electronic to paper prescription.

Therefore, different dispensing solutions may choose to notify (or not) the dispenser should there be a delay in acknowledgement of receipt of the dispense record.

7.1.2.3 Community Electronic Dispensing Exception Conditions and their Treatment

1) Request for electronic prescription timed out

In this scenario, dispensers should retry the operation.

If the situation is persistent, continue as "Prescription Delivery Service Unreachable/Unavailable" (See below)

2) Electronic prescription not found

Dispensers should be aware that there are several possibilities which may give rise to this scenario:

- a. An electronic prescription was, in fact, created by an authorised prescriber but it has not yet been successfully lodged in the delivery service.
- b. The token being presented is somehow corrupt and doesn't refer to a prescription in the delivery service.
- c. A technical issue with the inter-prescription exchange service.

The dispenser may, in such cases, contact the prescriber.

When an electronic prescription is created, the prescribing system will maintain a record of when confirmation of lodgement in the delivery service was received.

If confirmation has not yet been received, or has only just been received, the dispenser might be advised to wait and try again.

If confirmation of lodgement was received some time ago, it may be that the token is corrupt. In this case, the dispenser may obtain the token details from the prescriber and use these to retrieve the electronic prescription.

If the electronic prescription still cannot be retrieved, there may be an error in the delivery service infrastructure and the appropriate service operator advised. The prescriber and dispenser may, subject to regulation, agree to an urgent case (owing prescription).

 Electronic prescription cancelled Prescribers can cancel an electronic prescription at any time prior to it being dispensed.

If the token retrieves a prescription that has been cancelled, the dispenser should advise the Subject of Care and refuse supply.

4) Electronic prescription already dispensed

If the token retrieves a prescription that has already been dispensed, the dispenser should advise the Subject of Care.

If the pharmacist has reason to believe that the Subject of Care is without necessary medicine, they may contact the prescriber and, if permitted under regulation, request an urgent case (owing prescription), or they may supply medicine under emergency supply provisions if the prescriber is unavailable.

5) Subject of Care presents claiming they have lost or misplaced their token If the prescription has previously been dispensed at this pharmacy, the pharmacy may have a record of the dispense event, together with the dispense token and be able to retrieve the prescription.

If there has been no prior dispense of this prescription at this pharmacy, this represents a "lost prescription" scenario and normal practice applied i.e. if the pharmacist agrees and regulations permit, an urgent case (owing prescription) or emergency supply process applied.

6) Prescription Delivery Service Unreachable/Unavailable on attempting to retrieve an electronic prescription

The pharmacist cannot dispense from information which may accompany the token. The pharmacists may, if they choose to proceed, contact the prescriber and ascertain the details of the prescription, when it was created, when it was lodged in the prescription delivery service, whether it is still in date and to confirm any remaining supply (repeats).

If these considerations warrant, and the dispenser agrees (post due diligence), supply may be provided on an urgent case (prescription owing) basis. The dispense event should be reconciled as soon as practical when the prescription delivery service becomes available again.

7) Prescription Delivery Service Unreachable/Unavailable on sending of dispense record The dispensing software should continue to attempt to send the dispense record, or store and forward once the prescription delivery service becomes available again.

7.2 Residential Care Context

Subjects of Care in residential care may be receiving more medicines than those in the general community and on a more regular basis. Residential Care Facilities manage the administration of medicines for their residents as recorded on their residential medication chart and may also secure supply.

Under the future state, residential medication charts may be in electronic form and:

- Comply with the requirements of the National Residential Medication Chart;
- Comply with the systems that host them;
- Be conformant with the electronic prescribing requirements for prescribing systems; and
- Be conformant with token management.

Subjects of Care may be issued an electronic prescription token external to a medication chart (e.g. by a specialist) which requires token management by the residential care facility.



Figure 5. Overview of Residential Care context.

7.2.1 Residential Care Electronic Prescribing

7.2.1.1 Residential Care Electronic Prescribing Pre-conditions

In order for an authorised prescriber to be able to create an electronic prescription in a Residential Care Facility medication chart, the following steps are required:

- 1. The Residential Care Facility must have obtained and installed clinical software which is conformant with the requirements for electronic prescriptions (including medication charts).
- 2. The Residential Care Facility must have established Prescription Delivery Services.
- 3. The Residential Care Facility may optionally establish Direct Prescription Delivery Services with any contracted pharmacies.
- 4. The Residential Care Facility must, at a minimum, have contracted with an Open Prescription Delivery Service for the acquisition of Subject of Care's electronic prescription details through the use of a token (provided by the SoC), including the token(s) associated with medicines prescribed via the medication chart.
- 5. The Residential Care Facility must have defined and implemented a security policy which governs the access to electronic prescribing capability and information in its clinical software.
- 6. The Residential Care Facility must have approved prescribers and provisioned them with access to the electronic prescribing capability.

7.2.1.2 Residential Care Electronic Prescribing Process

There are several variations in the management of Subject of Care prescriptions and the methods though which supply is obtained. Prescribers within residential care context will find the electronic prescribing process similar but streamlined to the existing medication chart processing.

- Prescription by a regular prescriber Residents may be attended by a regular prescriber who is provisioned with access to the facility's medication chart prescribing system.
 - a. The medication chart is created by a prescriber per state legislative requirements within the medication chart system adding all the Subject of Care's current medicines. The chart is approved and dated.
 - b. The medication chart is reviewed on a regular basis in accordance with regulatory requirements.
 - c. The medication chart may be amended at any time by an authorised prescriber.
- Prescription by another authorised prescriber Residents may attend or be attended by a physician on an ad hoc basis and one who does not have access to the facility's medication chart system.

Note: This practice carries an inherent element of risk and efforts should be made to ensure that the prescriber is made aware of all medicines being taken by the Subject of Care.

In such circumstances, the prescriber may, with the Subject of Care's agreement, issue an electronic prescription, submitted to an Open Prescription Delivery Service, and provide the token to the Subject of Care or, with the Subject of Care's approval, send the token directly to the residential facility's electronic address for inclusion in the medication chart system.

The medication chart system may use the token to request the details of the prescription from the Open Prescription Delivery Service and may attach these details, together with the token to the Subject of Care's medication chart.

Note: The system may not automatically update the Subject of Care's medication chart with the new information. Generally, there should be a medicine review prior to the medication chart being updated.

Upon review by the Subject of Care's regular prescriber, the medication chart may be updated with the new prescription details and the token stored on the medication chart system made void and archived.

The residential care system will present all current medicines for the Subject of Care in a consolidated view, together with pertinent information such as "repeats remaining" as may be applicable to externally sourced prescriptions.

7.2.1.3 Residential Care Electronic Dispensing Process

1) Direct Supply requested from the facility's nominated pharmacy

Residential Care Facilities may source supply from contracted community pharmacies if required and where the Subject of Care has consented.

The Residential Care Facility may utilise any form of Prescription Delivery Service to send the medication chart, or the group of prescriptions that comprise the medication chart, together with any tokens representing additional prescriptions to the pharmacy. The nominated pharmacy may provide supply directly from a NRMC and will need to retrieve the electronic prescriptions associated with any tokens from an Open Prescription Delivery Service².

² This process is the same as that detailed in 7.1.2.2 above, and has the same preconditions, exception conditions and treatments.

2) Supply requested from a community pharmacy of the Subject of Care's choice Where the Subject of Care has requested supply from a pharmacy that does not have the means to receive prescription information directly from the facility, the prescriptions from the medication chart may be submitted to an Open Prescription Delivery Service, which can be accessed via the tokens presented to the pharmacy by the SoC.

7.3 Inpatient Context

7.3.1 Public Hospital

The following diagram provides a high-level illustration of the systems and actions within the Public Hospital context. It shows the Direct Prescription Delivery Service operating for inpatient medication orders, and the Open Prescription Delivery Service operating for medicines on discharge from inpatient or emergency settings, or from outpatients (noting that these may also operate through the Direct Delivery Service should the Subject of Care not wish to exercise choice of dispenser).



Figure 6. Overview of Public Hospital context.

It is noted that in some hospital systems, the system in which medicines are ordered or prescribed, and the system in which the order is reviewed and in which the dispense is authorised is one single system. This provides significant benefits in both efficiency and safety. The EPP Solution Architecture does not **require** that the Direct Prescription Delivery Service is an external service, or that prescriptions need to be transferred out of the prescribing system into a different dispensing system in order to constitute an electronic prescription.

7.3.1.1 Public Hospital Electronic Prescribing

Subjects of Care within inpatient hospital care may be receiving more medicines that those in the general community as well as being on more short-term medications such as antibiotics, antiemetics, subcutaneous anticoagulants and corticosteroids. Hospitals typically manage the

administration of medicines for their inpatients on their hospital medication chart and in almost all cases the hospital will also supply the medicines³.

As well as providing medicines for inpatient care the hospital will also supply prescriptions or medicines (or both) for Subjects of Care at the time of discharge, therefore connecting the hospital to community dispensing.

The future state will allow the hospital medication charts to operate entirely electronically as well as complying with the requirements of the National Hospital Medication Chart. Depending on jurisdictional rules and local processes, Subjects of Care on discharge may also be able to use the discharge summary medication list as a set of prescriptions and have them dispensed at a community pharmacy of their choosing as well as having the option to have them dispensed at the hospital's pharmacy.

7.3.1.2 Public Hospital Electronic Prescribing Pre-conditions

In order for an authorised prescriber to be able to create an electronic prescription within a hospital the following core steps are required:

- 1. The hospital must have defined and implemented a security policy which governs the access to electronic prescribing capability and information in its clinical software.
- 2. The hospital must have approved prescribers and provisioned them with access to the electronic prescribing capability.

In addition to these core steps, in order to support hospital medication chart electronic prescribing, the hospital must also complete the following steps:

- 1. The hospital must have obtained and installed clinical software which is conformant with the requirements for electronic prescriptions (including medication charts).
- 2. The hospital must have established Direct Prescription Delivery Services with an in-hospital pharmacy or a contracted agreement with an external pharmacy. Note that the Direct Prescription Delivery Service will in most cases be via point-to-point or enterprise integration which meets the minimum conformance requirements for a Prescription Delivery Service, or may be a logical concept where both the prescribing and dispense authorisations are undertaken within a single system.

In order to support electronic prescriptions on discharge, the hospital must complete the following step:

1. The hospital must have contracted with an Open Prescription Delivery Service for the delivery of electronic prescriptions to community pharmacies.

7.3.1.3 Public Hospital Electronic Prescribing Process - Inpatient

Prescribers within inpatient care will find the electronic prescribing process similar but streamlined to the existing medication chart processing.

Patients are attended by the hospital-based prescriber who is provisioned with access to the facility's medication chart (prescribing) system.

- a. The medication chart is created by the prescriber within the medication chart system adding all the Subject of Care's current medicines. The chart is signed and dated per relevant legislation and policy.
- b. The medication chart is reviewed on a regular basis in accordance with regulatory requirements.
- c. The medication chart may be amended at any time by an authorised prescriber.

³ Consumer choice in these circumstances is being maintained, as the common practice when people are admitted to a hospital or outpatient clinic is for the hospital to have a consent process for treatment that covers medicines supply.

7.3.1.4 Public Hospital Electronic Prescribing Process – On Discharge

Prescribers discharging Subjects of Care will be able to convert the hospital medication chart into valid electronic prescriptions that can be filled in community pharmacy. The prescriptions may also be filled within the hospital's own pharmacy. Additionally, where possible (e.g. not S100) a combination of both may exist where the initial prescription is filled by the hospital pharmacy and the subsequent repeat electronic prescriptions are provided to the Subject of Care or their agent to have dispensed at a community pharmacy of their choosing.

- 1. At the time of discharge the prescriber reviews the current medication chart and selects which medicines are required on discharge and how many repeats are required.
- 2. Based on the Subject of Care's preferences the prescriber selects whether these medicines are to be provided by the in-hospital pharmacy or a community pharmacy of the Subject of Care's choosing.
 - a. If the medicines are to be dispensed by the in-hospital pharmacy the medication order is sent to the pharmacy directly. Any subsequent repeat electronic prescriptions are sent to the Open Prescription Delivery Service so that the Subject of Care may fill these at a community pharmacy of their choosing. The tokens may be passed to the Subject of Care, most likely on paper or, if an electronic address is recorded for this purpose, electronically.
 - b. If the medicines are to be dispensed by a community pharmacy the electronic prescription(s) are sent to the Open Prescription Delivery Service and the tokens are passed on to the Subject of Care⁴.

7.3.1.5 Public Hospital Electronic Prescribing Exception Conditions and their Treatment

When prescribing medicines for the patient in the in-patient setting, the hospital medication chart is less likely to have the technical issues outlined within community prescribing and dispensing as they occur on the same computer network and internet outages should have limited impact. Hospitals shall define their own business continuity strategy to account for system outages, and this will most likely involve paper hospital medication chart prescribing.

For medicines on discharge that involves community pharmacies see 7.1.1 Community Context: Community Electronic Prescribing Exception Conditions and their Treatment.

7.3.2 Private Hospital

Private hospital prescribing is achieved in a variety of ways. They may use a compliant electronic hospital medication chart system or medication orders may be written by the treating prescriber on their own standalone prescribing system. In the event the private hospital uses a fully electronic hospital medication chart, the context is identical to that mentioned in the public hospital context (7.3.1.1 above).

Where the prescribers use their own stand-alone prescribing software, prescriptions may still be filled by in-hospital or contracted pharmacies, but they may also be filled by a community pharmacy if the Subject of Care chooses.

The following diagram provides a high-level illustration of the systems and actors within the Private Hospital context. It shows the Direct Prescription Delivery Service operating for inpatient medication orders, and the Open Prescription Delivery Service operating for medicines on discharge from inpatient or emergency settings, or from outpatients (noting that these may also operate through the Direct Prescription Delivery Service should the Subject of Care not wish to exercise choice of dispenser).

⁴ This process is the same as that detailed in 7.1.2.2 above, and has the same preconditions, exception conditions and treatments.





7.3.2.1 Private Hospital Electronic Prescribing Pre-Conditions

In order for an authorised prescriber to be able to create electronic prescriptions within a hospital the following core steps are required:

- 1. The hospital must have defined and implemented a security policy which governs the access to electronic prescribing capability and information in its clinical software.
- 2. The hospital must have approved prescribers and provisioned them with access to the electronic prescribing capability.
- 3. The hospital must have obtained and installed clinical software which is conformant with the requirements for electronic prescriptions.
- 4. The hospital must have established conformant Direct Prescription Delivery Services with an in-hospital pharmacy or a contracted agreement with an external pharmacy. Note that the Direct Prescription Delivery Service may be via point-to-point or enterprise integration which meets the minimum conformance requirements for a Direct Prescription Delivery Service as is the case with public hospitals.

In order to support electronic prescriptions on discharge the hospital must complete the following step:

- 1. The hospital must have contracted with an Open Prescription Delivery Service for the delivery of electronic prescriptions to community pharmacies.
- 2. Private hospitals may also choose to contract with an Open Prescription Delivery Service if the prescribers opt to use their own standalone prescribing software.

7.3.2.2 Private Hospital Electronic Prescribing Process

The process is consistent with that of public hospitals (see 7.3.1.1)

7.3.2.3 Private Hospital Electronic Prescribing Exception Conditions and their Treatment

In the event that the private hospital chooses to implement an Open Prescription Delivery Service the exception conditions are identical to that of community pharmacy (Community Electronic Dispensing exception conditions and their treatment). In these events using paper prescriptions would be the most likely contingency plan for exception cases and as such private hospitals should make appropriate business continuity plans and ensure the appropriate stationery is available.

7.4 Outpatient Context

Prescribing from outpatient clinics and emergency departments vary from both the inpatient context and the community context. If medicines are provided *during the episode of care,* they are likely to be sourced in accordance with hospital practice from the hospital pharmacy. As per the public hospital context described above, the way consumer choice is maintained as the common practice when people attend an outpatient clinic is for the hospital to have a consent process for treatment that covers medicines supply for administration during the episode.

Prescriptions provided at the conclusion of the episode should, where possible, be provided in a manner that supports patient choice of source of supply. ("Where possible" as some S100s may only be available from the hospital dispensary.)

7.4.1 Outpatient Electronic Prescribing Pre-conditions

In order for an authorised prescriber to be able to create an electronic prescription in an outpatient clinic, the following steps are required:

- 1. Outpatient clinic must have obtained and installed clinical software which is conformant with the requirements for electronic prescriptions.
- 2. Outpatient clinic must have defined and implemented a security policy which governs the access to electronic prescribing capability and information in its clinical software.
- 3. Outpatient clinic must have approved prescribers and provisioned them with access to the electronic prescribing capability.

In order for an authorised prescriber to create a valid electronic prescription that is dispensed by a contracted or in-hospital pharmacy:

• The outpatient clinic must have established Direct Prescription Delivery Services with any contracted or in-hospital pharmacies.

In order for an authorised prescriber to create a valid electronic prescription that can be filled at a community pharmacy of the Subject of Care's choosing the following steps are required:

• Outpatient clinic must have contracted with an Open Prescription Delivery Service for the delivery of electronic prescriptions to community pharmacies and established a connection with its clinical software.

7.4.2 Outpatient Electronic Prescribing Process

Electronic prescribing for medicines to be administered during the episode of care remain similar to the existing workflow and align to 7.3.1.1 Public Hospital Electronic Prescribing.

For prescribing at the end of the episode, a decision is required.

- 1. Should the prescription be provided as a paper prescription or an electronic prescription? Considerations include:
 - Does the prescription carry specific legislative requirements for a physical (handwritten) signature, annotation or authority? In these circumstances, a paper prescription must be provided.
 - b. Does the prescriber have the capability and willingness to produce an electronic prescription? prescribers have a choice as to whether to provide electronic prescriptions.

- c. Does the Subject of Care wish to have the prescription filled by the in-hospital or contracted pharmacy, or do they wish to take the prescription to a community pharmacy?
- d. Does the Subject of Care have the desire to receive an electronic prescription? Subjects of Care have the right to express a specific choice of form.
- If the Subject of Care requests an electronic prescription and would like it to be filled by a community pharmacy, the approach on what form the token takes is identical to section 7.1.1 Community Electronic Prescribing discussed above, as are the exception conditions and treatments.
- 3. If the Subject of Care instead requests for the electronic prescription to be dispensed at the hospital or contracted pharmacy, the prescribing software should let the prescriber select either the in-hospital or contracted pharmacy. The software may then send the electronic prescription directly using a Direct Prescription Delivery Service.

7.4.3 Outpatient Electronic Prescribing Exception Conditions and their Treatment

If the Subject of Care wishes to have the prescription filled by the in-hospital or contracted pharmacy the exception conditions are identical to those in the hospital scenarios raised above. If instead the Subject of Care chooses to have the prescription filled by a community pharmacy of their choosing the exception conditions will be identical to that of any community pharmacy dispensing events as described above.

7.5 Active Script List (ASL) Model for Electronic Prescription Retrieval

An alternative approach to electronic prescriptions has been adopted in countries such as Italy and some Scandinavian countries. In these countries, a person may present with identifying information at a pharmacy, which is then able to obtain their current list of prescriptions from an Open Prescription Delivery Service.

To support such a scheme, the Open Prescription Delivery Service must support the retrieval of prescriptions based on personally identifying information.

This model presents both opportunities and challenges, particularly when viewed from within the Australian Regulatory environment.

The opportunities are that a person might not have to worry about losing their prescription or token. Provided they could identify themselves to the pharmacy, their prescriptions would always be available.

The challenges appear two-fold and relate to potentially additional prescribing and dispensing processes:

 Prescription information is sensitive. To support an Active Script List⁵ model, the Open Prescription Delivery Service need to access the personally identifying and sensitive information contained in prescriptions. The disclosure of such information by the prescriber requires the consent of the Subject of Care, as per the Privacy Act 1988.

The APP Guidelines state that for a consent to be valid it must encompass four elements: a. the individual is adequately informed before giving consent;

⁵ In previous development versions of the Solution Architecture and Conformance Profile, the Active Script List model was originally referred to as 'Lookup' model.

- b. the individual gives consent voluntarily;
- c. the consent is current and specific; and
- d. the individual has the capacity to understand and communicate their consent.

For the consent to be current and specific, it should be sought at the time the information is collected. i.e. by the prescriber.

For the individual to be adequately informed, they would need to know who their information is being disclosed to, and for what purposes. While the purpose is fairly clear, most individuals would have little knowledge of the organisations who provide Prescription Delivery Services, and this may require further explanation from the prescriber.

Dispensers currently only have access to information related to the prescription that the Subject of Care provides them. While there may be clinical benefits associated with a dispenser having access to prescriptions other than the prescription the Subject of Care provides them, this too would need to be explained by the prescriber to the Subject of Care in order to gain informed consent.

2. Pharmacy workflow is highly transactional and time-sensitive. In any Active Script List model, the pharmacy would be required to acquire sufficient identifying information so as to accurately query the Open Prescription Delivery Service. Standards in Healthcare typically require at least three pieces of identifying information. The ability to match this information to an individual's Healthcare Identifier (IHI) provides a level of certainty in the identification process, and the subsequent prescription retrieval process. An individuals' IHI may be acquired from the HI service through the supply of their Name, Sex, Date of Birth and Entitlement Card Number (Medicare or DVA). It would, however, require pharmacies to obtain this identifying information from the Subject of Care (or their agent), acquire the IHI and save it in their dispensing systems in order to obtain a list of current prescriptions. Assuming this is achieved, the Subject of Care may then require only some of the available prescriptions to be filled. This process may then require further consultation and dialog between the Subject of Care and the dispenser.

The Active Script List model is currently under consideration by the Electronic Prescription Project and may be endorsed for implementation at some future stage.

8 Data Models

The Electronic Prescriptions Solution Architecture, in leveraging existing solutions and permitting further industry innovation, does not define or declare a complete normative data model for the storage, transmission or exchange of prescription or dispense information.

It does, however, require the inclusion of certain data elements which must be accommodated for a Prescription Delivery Service implementation to be declared conformant. These are detailed in the relevant national legislation and state and territory regulations.

For guidance on the possible contents of a prescription and dispense record, reference can be made to ATS 4888.1 - 2013 or the eHealth Prescription Record v1.2.1⁶.

8.1 Electronic Record Metadata

Each electronic prescription record and dispense record has two sections:

- Metadata, that is decrypted within the PDS to support the technical operation of the system
- Clinical content the body of the record containing personal and sensitive information which remains encrypted within the PDS

Together the metadata and the clinical content comprise the Electronic Prescription.

The requirements for the prescription metadata are described in the tables below. Normative data elements are identified in blue, in the context of example data structures so their use and cardinality may be readily understood.

Electronic Prescription – metadata			
Field Name	Data type	Required	Notes
Delivery Service Prescription Identifier (DSPID)	String	Required	The barcode or QR code on an token is a representation of this value and is used to retrieve the prescription.
Prescription software conformance identifier	String	Normative - Required	Conformance ID of the prescribing software.
originalRepositorySoftUniqueId	String	Normative - Required	This is the conformance id of the PDS to which the prescription is sent. This will be populated on submission of the electronic prescription to an

8.1.1 Electronic Prescription Metadata

⁶ The eHealth prescription record specification can be found on the Agency's website at: <u>https://www.digitalhealth.gov.au/implementation-resources/clinical-documents/EP-1919-2015/NEHTA-1913-2015</u>

			Open Prescription Delivery Service.
Electronic Address	String	Normative - Optional	The electronic address to which an electronic prescription notification may be sent.
Other Metadata			Additional metadata as may be required to support the operation of the delivery service.

8.1.2 Dispense Record Metadata

Dispense Record– metadata			
Field Name	Data type	Required	Notes
Delivery Service Prescription Identifier (DSPID)	String	Required	The barcode or QR code on a token is a representation of this value and is used to retrieve the dispense record(s) (including repeat record(s)) is applicable.
Dispense software conformance identifier	String	Normative - Required	Conformance ID of the dispensing software.
original Repository Soft Unique Id	String	Normative - Required	This is the conformance id of the PDS to which the prescription was originally sent. This will need to be copied from the original prescription.
RepositorySoftUniqueId	String	Normative - Required	This will be populated on submission of the Dispense

			Record to an Open Prescription Delivery Service.
Electronic Address	String	Normative - Optional	The electronic address to which an electronic dispense record notification may be sent.
Other Metadata			Additional metadata as may be required to support the operation of the delivery service.

8.2 Evidence of Prescription Data Requirements

The following tables outline the logical data requirements for presentation on an Evidence of Prescription for a Subject of Care or their agent.

8.2.1 Evidence of Prescription Provided Physically to the Subject of Care (or their agent) at Time of Prescription

Where the evidence of prescription can be guaranteed to be provided directly to the Subject of Care or their agent (for example, printed and handed physically over, presented on a screen for printing in an online ordering environment), the following data elements should be provided:

Logical Data Description	Data Elements
Barcode/QR code	A barcode or QR code accompanied by the alphanumeric representation
Barcode/QR code number (DSPID)	DSPID
Name of the Subject of Care	Name title, First Name, Family Name
Name of the prescriber	Name title, First Name, Family Name
Name of the prescriber organisation (optional)	Organisation Name
Contact Details of the	Address (Line 1, Line 2, Line 3, Suburb, State, Postcode)
prescriber/organisation	Telephone number
Medicine name and strength	Medicine name
	Medicine strength
Date prescribed	Date prescribed
Number of repeats available	Maximum number of repeats

Privacy notice	The privacy notice relating to the collection of personal
	information by the Australian Government to support the
	assessment and administration of payments and services.

8.2.2 Evidence of Prescription Provided Physically to the Subject of Care (or their agent) at Time of Dispense

Where the evidence of prescription can be guaranteed to be provided directly to the Subject of Care or their agent (for example, printed and handed physically over, presented on a screen for printing in an online ordering environment), the following data elements should be provided on dispense or deferred supply:

Logical Data Description	Data Elements
Barcode/QR code	A barcode or QR code accompanied by the alphanumeric representation
Barcode/QR code number (DSPID)	DSPID
Name of the Subject of Care	Name title, First Name, Family Name
Name of the prescriber	Name title, First Name, Family Name
Name of the prescriber organisation (optional)	Prescribing Organisation Name
Contact Details of the prescriber/organisation	Prescribing Organisation Address (Line 1, Line 2, Line 3, Suburb, State, Postcode)
	Prescribing Organisation Telephone number
Most recent dispenser	Dispensing organisation name
	Dispensing Organisation Address (Line 1, Line 2, Line 3, Suburb, State, Postcode)
	Dispensing Organisation Telephone number
Medicine name and strength	Medicine name
	Medicine strength
Date prescribed	Date prescribed
Number of repeats available	Remaining number of repeats
Privacy notice	The privacy notice relating to the collection of personal information by the Australian Government to support the assessment and administration of payments and services.

8.2.3 Notification of Electronic Prescription

Where the notification of an electronic prescription is transmitted electronically to the Subject of Care (for example, by email or SMS), the following data elements should be provided:

Logical Data Description	Data Elements
Uniform Resource Identifier (URI)	A URI is a string of characters which is used to identify a resource on a computer network. A URI may be a name by itself (URN) or a resource name with a method of getting to it (URL). URI's provide a standardised syntax used by developers to identify a resource.

	For electronic prescriptions, a URI should follow the formations: ausrx:// <open delivery="" prescription="" service<br="">Abbreviation>/<delivery identifier="" service=""> (Note: ausrx is yet to be confirmed as an available prefix.)</delivery></open>	
Name of the Subject of Care	Name title, First Name, Family Name	
Medicine(s) name	Medicine name	

8.2.4 Evidence of Electronic Prescription

The URI in a notification of an electronic prescription will link to the following data elements:

Logical Data Description	Data Elements
Barcode/QR code	A barcode or QR code accompanied by the alphanumeric representation
Barcode/QR code number (DSPID)	DSPID
Name of the Subject of Care	Name title, First Name, Family Name
Medicine name and strength	Medicine name Medicine strength
Privacy notice	A link to the privacy notice relating to the collection of personal information by the Australian Government to support the assessment and administration of payments and services.

Acronyms

Acronym	Description
ABN	Australian Business Number
AHPRA	Australian Health Practitioner Regulation Agency
AMT	Australian Medicines Terminology
API	Application Programming Interface
APP	Australian Privacy Principles
ASL	Active Script List
ASLR	Active Script List Registry
ATC	Anatomical Therapeutic Classification
CIS	Clinical Information System
EDW	Enterprise Data Warehouse
EP	Electronic Prescription
EPWG	Electronic Prescribing Working Group
ETP	Electronic Transfer of Prescriptions
e-Prescribing	electronic prescribing
e-Prescription	electronic prescription
HI Service	Healthcare Identifiers Service operated by Services Australia
HPI-I	Healthcare Provider Identifier - Individual
HPI-O	Healthcare Provider Identifier - Organisation
IHI	Individual Healthcare Identifier
NRMC	National Residential Medication Chart
PBS	Pharmaceutical Benefits Scheme
PDS	Prescription Delivery Service
PES	Prescription Exchange Service
RPBS	Repatriation Pharmaceutical Benefits Scheme
SoC	Subject of Care (patient or consumer)
S100	Section 100 – highly specialised drug as per the Highly Specialised Drugs (HSD) Program
TWG	e-Prescriptions Technical Working Group

Glossary

Term	Meaning		
Australian Medicines Terminology	The terminology within SNOMED CT-AU that is the national, standards- based approach to the identification and naming of medicines in clinical systems for Australia.		
Conformance	A measurement (by testing) of the adherence of an implementation to a specification or standard.		
Electronic prescribing (e- Prescribing)	The process by which a prescription is electronically generated by a Prescriber, authenticated with an electronic signature, securely transmitted to a prescription delivery service for dispensing and supply, downloaded by a supplier, seamlessly integrated into the dispensing software and, in the case of Australian government subsidised prescriptions, available to be electronically sent to the Department of Human Services for claiming purposes.		
	 This definition does not preclude the use of paper processes to support electronic prescribing activity. 		
	2. Repeat and deferred supply dispense records that are uploaded to a prescription delivery service by a supplier are not electronic authorisations, unless the original prescription was generated by a prescriber as an electronic prescription.		
Electronic prescription (e- Prescription)	An electronic clinical document that contains all information relating to an order to supply medicine to an individual and is a legally dispensable instruction. An electronic prescription is generated electronically by an authorised prescriber, authenticated, securely transmitted (either directly or indirectly) for dispensing and supply, integrated into the pharmacy dispensing software and, in the case of Pharmaceutical Benefits Scheme (PBS) prescriptions, available to be sent electronically to the Department of Human Services for claiming purposes. Note: This definition does not preclude the use of other processes or artefacts to support e-Prescribing.		
Electronic transfer of prescription (ETP)	The current process whereby prescribing systems pass data about a prescription to a Prescription Exchange Service (PES), which is available for download by dispensing systems in support of dispensing a paper prescription. This process provides clinical safety and time saving benefits.		
Evidence of Prescription	The prescriber has the capability of offering the Subject of Care or their agent evidence of the electronic prescription. It is important that evidence of prescription only contains information that is helpful to the Subject of Care and would provide an authorised dispenser sufficient information to contact the prescriber in the case that the legal electronic prescription cannot be retrieved. The evidence of prescription may include a token that supports retrieval of the electronic prescription using a barcode scanner (or similar).		
Medicine record	The record, made by an authorised prescriber in a Clinical Information System or on a medication chart, detailing what medicine(s) the Subject of Care is, or should be, supplied with.		
Paper prescription	The current prescription utilised in Australia. A paper prescription may or may not contain an ETP barcode. A paper prescription constitutes the legal artefact.		

Participating system	A computer system that participates in electronic prescribing. Participating systems include any system which generates an electronic prescription, retrieves and dispenses from an electronic prescription, facilitates the transfer of an electronic prescription or manages an electronic prescription.
Prescription	A legally dispensable instruction from an authorised prescriber to supply medicine(s).
Prescription item	One prescription may contain orders for a number of different medicines (per regulation). For example, one prescription form (or electronic prescription) may contain up to three (3) different pharmaceutical benefit prescription items. Not all prescription items are required to be dispensed at the same time.
Token	A token is a method of retrieving the electronic prescription. It contains a barcode or QR code which represents the Delivery Service Prescription Identifier (DSPID). The barcode or QR code supports scanning.

References

- 1. AHMAC Electronic Prescribing Working Group Meeting Papers for 24 July 2018.
- 2. AHMAC Electronic Prescribing Working Group Meeting Papers for 13 December 2018.
- 3. ATS 4888.1 2013 available at <u>https://infostore.saiglobal.com/en-au/Standards/ATS-4888-1-2013-119976_SAIG_AS_AS_251436/</u>

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Appendix A – Use Cases

This appendix contains use cases supporting the electronic prescription contexts described in Section 7. Use cases are intended for illustrative purposes only, and do not encompass all edge cases. The use cases provided are listed in the following table.

Prescriber Use Cases	Dispenser Use Cases	Consumer Use Cases
UC4.1.8 – Prescribe	UC4.5.8 – Dispense	UC4.3.8 – Normal flow
UC4.1.9.1 – Create electronic prescription	D2.6.1 – Dispense prescription owing	UC4.3.9 – Shared access
UC4.1.9.1 – Create paper prescription	UC4.5.10.1 – Electronic prescription paper form	0
UC4.1.10.2 - Multiple prescription document	UC4.5.10.3 – Electronic prescription not available at	.:.0`
UC4.1.10.3 – Cancel prescription	request	
delivery option	UC4.5.10.4 – Prescription	
UC4.1.10.4 – Consult with agent		~ 0
UC4.1.10.5 – Electronic prescription fail safe	supply	
UC4.1.9.4 – Prescribe medicines	UC4.5.10.8 – Supply unavailable	
on approved chart	UC4.5.10.9 – Deny supply	
UC4.1.10.6 – Prescribe with Local Chart	UC4.5.10.10 – Invalid electronic prescription transaction	
UC4.1.9.5 – Electronic	(rollback)	
prescriptions on discharge	UC4.5.10.11 – Repeats	
	UC4.5.10.12 – Supply declined	
0.0	UC4.5.10.13 – Prescription delivery option	
	UC4.6.9.4 – Resolve prescription owing	
	UC4.6.9.1 – Cancel dispense	
	UC4.6.9.2 – Amend dispense	

Prescriber Use Cases

UC4.1.8 – Prescribe (electronic prescription) | UC4.1.10.5 – Electronic prescription fail safe | UC4.1.10.4 – Consult with agent

Where a prescriber prescribes medication, the prescribing software is able to generate an electronic prescription token to pass to the SoC/agent. This process would be used for:

- SoCs / agents requiring prescription medicine where they have opted for an electronic prescription
- Prescribing prescription medicine in an electronic format •

Process Overview

The SoC has presented to an authorised prescriber. Following consultation, the prescriber has determined that prescription medicine is required. The SoC indicates their preference for an electronic prescription. The prescriber generates the electronic prescription token which is passed to the SoC/agent.

Participants

information.

Prescriber, SoC / agent

electronic prescription token.

the original prescription.

electronic prescription prior to first

dispense/deferred supply and must have

confidence the SoC/agent has the correct

Operational Policy



Token

Passes e-

UC4.1.9.1 – Create electronic prescription UC4.1.10. prescription delivery option Where a SoC/agent has indicated their preference for a prescription, the prescriber will have the ability to pass prescription token to them. This process would be used	3 – Cancel an electronic the electronic d for:	SoC Vagent Indicates preferred delivery method	Receives e- prescription Token
 SoCs / agents requiring prescription medicine when for an electronic prescription Prescribing prescription medicine in an electronic of Process Overview During the prescribing process, the prescriber selects the prescription option within their local prescribing softwores delivery options. The SoC / agent may indicate delivery method. The process results in the SoC/agent appropriate electronic prescription token. Participants Systems Prescriber, SoC / agent 	re they have opted Pre- Format the electronic are. This provides the te their preferred obtaining the offtware, PDS	PDS	Completes prescription order - generates token e-prescription m e-prescription received. Confirmation sent.
Operational Policy SoC/agent can exercise choice of delivery method per the options made available by the prescriber. The prescriber must nominate at least one (1) option to allow SoC/agent access to the electronic prescription. During consultation, a prescriber may choose to cancel the electronic prescription in favour of a paper prescription.	System Interaction Local Prescribing System Electronic I Cont Lodgement	PDS Prescription ainer confirmation	Authorised tokenTokens are provided to the Subject of Care via conformant systems.Token delivery service methods may include SMS, MMS, email, print, desktop capture, mobile application, or other.Possibility of Exception The prescriber may cancel the prescription request at any point in the process.

UC4.1.9.1 – Paper prescription (current practice) SoC Where a prescriber prescribes medication, the prescribing software is able /agent Receives to generate a paper prescription to pass to the SoC/agent for filling. This Indicates paper prescription paper process would be used for: prescription preference • SoCs / agents requiring prescription medicine where they have opted for a paper prescription. Prescriber ٠ Prescribing prescription medicine in a paper format. Completes Identifies SoC ETP lodged in Passes paper prescription order and locates PDS prescription to generates and patient record (if applicable) SoC / agent authorises **Process Overview** prescription The Subject of Care (SoC) has presented to an authorised prescriber. Local prescribing system Following assessment, the prescriber has determined that prescription medicine is required. The SoC indicates their preference for a paper PDS prescription. The prescriber generates the prescription which is passed to the SoC/agent. ETP received Participants Systems Prescription Delivery Service Prescriber, SoC / agent Prescribing software, PDS **Operational Policy** System Interaction Authorised token SoC/agent can exercise choice between receiving a Paper prescriptions do not contain an electronic Local Prescribing System PDS paper prescription or an electronic prescription. prescription token. An ETP record is *not* an electronic prescription. Current policy and process applies to paper ETP prescriptions with or without ETP barcodes. Possibility of exception A prescriber may cancel the prescription order within prescribing software, simultaneously destroying the paper prescription. A prescriber may choose to generate a paper prescription which contains an ETP barcode per existing processes.

 UC4.1.10.2 - Multiple prescription document The electronic prescription may contain one or more prescription items which meets regulatory and policy requirements. This process would be used for: SoCs / agents requiring prescription medicines where they have opted for an electronic prescription. 	SoC /agent Indicates e- prescription preference Receives e- prescription Token(s)
 Prescribing prescription medicines in an electronic format. Process Overview As an element of the prescribing process, the prescriber prescribes multiple medicines to the SoC. According with prescription schemes and regulatory and policy requirements, the SoC / agent is provided with the appropriate medicines order(s). 	Prescriber Identifies SoC and locates patient record Local prescribing system PDS V Completes prescription order(s) - generates tokens e- prescription(s) lodged in PDS e-prescription(s) record e-prescription(s) received. Completes prescription(s) received. Completes prescription(s) received. Completes prescription(s) received. Completes prescription(s) received. Completes prescription(s) received. Completes prescription(s) received. Completes prescription(s) received. Comfirmation (s) sent.
ParticipantsSystemsPrescriber, SoC / agentPrescribing software, PDS	Prescription Delivery Service
Operational Policy System Interaction One electronic prescription may contain many Local Prescribing System and policy requirements. Electron Local Prescribing System Electron	PDS Diric Prescription Container nent confirmation Possibility of system exception A system exception is possible, preventing a prescriber from confidently passing an electronic prescription token to their SoC/agent. In these circumstances, the prescriber will revert to the paper prescription process.

Prescribe with local chart In this process, a SoC has a corresponding <i>electronic</i> m (compliant with PBS HMC, or NRMC). The SoC is prescri their compliant electronic medication chart. This proce	edication chart ribed medications via ess would be used for:	Agent Has a compliant electronic medication chart	Receives e- prescription Token(s)
 SoCs requiring prescription medications; and Prescribing medicine on a compliant medication c 	hart. Pi	rescriber	Completes medication chart lodged in Passes e- prescription
Process Overview The SoC is assigned a compliant electronic medication completes a prescription order onto the electronic me electronic medication chart passes through a PDS to th dispenser.	chart. The prescriber dication chart. The ne preferred	PDS	e-prescription(s) received.
ParticipantsSystemsPrescriber, SoC / agentPrescribing so medication c	oftware/electronic hart, PDS	Prescription Delivery	Service
An electronic prescription may be generated exclusive of a compliant medication chart – refer to UC4.1.8. The RCF may provide linking functionality for externally generated electronic prescriptions. A compliant electronic medication chart (NRMC / PBS HMC) may act as an electronic prescription if it communicates electronic prescription information via a conformant PDS. Operational Policy A SoC may exercise their choice of dispenser (as required).	System Interaction Local Prescribing System/ Electronic Medication chart Electronic Con Lodgemen	PDS Prescription tainer t confirmation	 Authorised token Where a conformant Direct PDS is used, a token may not be required. Authorised agent A residential care facility may act as a SoC's agent when SoC consent has been granted. Possibility of system exception A system exception is possible, preventing a prescriber from confidently generating an electronic prescription. In these circumstances, the prescriber will revert to the paper prescription process.

UC4.1.9.5 - Electronic prescriptions on discharge

In this process, a SoC is being discharged from hospital. The SoC has an electronic medication chart from which a prescriber may generate the SoC's discharge medication prescriptions. This process would be used for:

- SoCs being discharged from hospital requiring prescription medications; and
- Prescribers discharging SoCs from an inpatient hospital setting. ٠

Process Overview

Participants

During consultation, the SoC / agent indicates their preference to receive an electronic prescription. The prescriber then generates an electronic prescription from the hospital electronic medication chart. The electronic prescription record is sent to the PDS. Upon discharge, electronic prescription(s) are passed to the SoC/agent. The SoC/agent has the electronic prescription token in their possession.

Systems

chart. PDS



Authorised agent

A hospital pharmacist may act as a SoC's agent when SoC consent has been granted.

Possibility of system exception

A system exception is possible, preventing a prescriber from confidently passing an electronic prescription token to their SoC/agent. In these circumstances, the prescriber will revert to the paper prescription process.



Prescriber, SoC / agent

One (1) electronic prescription token may contain a number of prescription items as compliant with relevant regulation.

Where paper medication charts are in use, a

prescriber may choose to follow UC4.1.8.

Medication chart

Electronic Prescription

Container

Lodgement confirmation

Dispenser Use Cases

UC4.5.8 – Dispense | UC4.5.10.1 – Electronic prescription paper form | UC4.5.10.4 – Prescription dispense history | UC4.5.10.13 – Prescription delivery option | UC4.6.9.2 – Amend dispense

An electronic prescription is able to be dispensed at a dispensary of SoC's/agent's choice. This process would be used for:

- SoCs / agents requesting supply and dispense of one or more prescription items where they may exercise choice of dispenser; and
- Dispensers supplying and dispensing from an electronic prescription. ٠

Process Overview

Participants

from the PDS.

Dispenser, SoC / agent

prescription was presented.

Operational Policy

The SoC/agent communicates an electronic prescription(s) to the dispenser for supply. The dispenser scans the electronic prescription token, retrieving the electronic prescription data from the PDS. The dispenser consults with the SoC/agent per standard practice and performs supply and dispense. The SoC/agent is provided with required medicine(s).





necessary changes to correct the record.

the production of tokens for repeat or deferred medications for the SoC with the PDS unavailable. The dispensing system should continue to retry updating the electronic prescription message until successful.

from accessing the electronic prescription data. In these circumstances, the dispenser would follow an UC4.5.10.5 process.

D2.6.1 – Dispense prescription owing UC4.5.10.3 – not available at request The dispenser may supply the medicines in accordance service requirements where a prescription is not press be invoked where a request can be met in consultation This process would be used for:	Electronic prescription ce with regulatory cent. This scenario may on with a prescriber.	SoC /agent	Requires urgent prescription fill	Receives medicine(s)
 SoCs / agents requesting supply of one or more privity without presenting a prescription; and Dispensers supplying where a prescription is not Process Overview The SoC/agent presents at a dispenser requiring med prescription available for dispensing. The dispenser are completing the required due diligence (including contine prescriber). The dispenser will then create a dispense record annotations as necessary. The dispense record prescription owing state until the prescription is provide prescription available for dispenser and the prescription is provided by the prescription of the dispenser of the dispense record prescription owing state until the prescription is provided by the prescription of the pres	prescription medicines present. icine without a ppraises the request, cacting the nominated record and make d will be stored in a ided.	Dispenser PDS	Performs due diligence Local dispensing system	Performs dispensing due diligence Supply prescription owing SoC / agent
Operational Policy Dispenser due diligence is required to confirm SoC/agent prescription requirements and legitimacy. Supply will be recorded in the local dispensing system per local procedure. Major deviations should not be supported through this mechanism, where a new prescription is required.	System Interaction A dispenser may inter system only (e.g. to re a prescription, the dis PDS.	act with the cord a supp penser will r	ir local dispensing ly event). Without lot interact with a	 Possible system exception An UC4.5.10.5 process may be invoked due to a system exception where: Prescription data is not available from the PDS Prescription not found or returned by the PDS Possibility of exception A dispenser may dispense without verbal authorisation from a prescriber under emergency supply provisions. An emergency supply is not treated as a PBS prescription.

UC4.5.10.5 – Defer prescription supply

An electronic prescription may contain more than one prescription item. During dispense, one or many prescription items may be dispensed. Those that are not dispensed are deferred. This process would be used for:

- SoCs/agents requesting dispense less than the total number of prescription items contained in one electronic prescription; and
- Dispensers supplying and dispensing from an electronic prescription containing more than one prescription item.

Process Overview

The SoC/agent presents an electronic prescription(s) to the dispenser to be filled. The dispenser scans the electronic prescription token, retrieving the electronic prescription data from the PDS. The dispenser consults with the SoC/agent per standard practice and performs supply and dispense. The SoC/agent is provided with required medicine(s) and subsequent electronic prescription token(s). Medicines that have not been dispensed are marked as deferred. This will be followed with UC4.6.9.4.

Participants	Systems	
Dispenser, SoC / agent	Dispensing software, PDS	
Operational Policy	System Interaction	

SoC/agent can exercise choice of medicines for dispense.

Electronic prescriptions related to repeats and/or deferred medicines will be provided to the SoC/agent.

Prescription Change

Annotations may be made to the electronic prescription per relevant policy and regulation.





Authorised token A token will be generated corresponding to a deferred supply prescription item.

Possibility of system exception

A system exception is possible, preventing a dispenser from accessing the electronic prescription data. In these circumstances, the dispenser would follow the UC4.5.10.5 process

The dispensing system must assure service to enable the production of tokens for repeat or deferred medications for the SoC with the PDS unavailable. The dispensing system should continue to retry updating the electronic prescription message until successful. UC4.5.10.8 – Supply unavailable | UC4.5.10.9 – Deny supply | UC4.6.9.1 – Cancel dispense

After retrieving the electronic prescription record from the PDS, the dispenser will determine, during due diligence, if the supply is to be prohibited / denied. This process would be used for electronic prescription items which have been:

- Cancelled the prescription was cancelled after it was issued by the prescriber.
- Exhausted The prescription is not available for further supply.
- Expired The prescription has passed its expiry date.
- Deemed to fail dispense due diligence.

Medicines will not be provided to the SoC / agent

where prohibited, denied or prescription has been

same token are successfully dispensed, the use case

specific to those medicines will follow the dispense

Where additional prescription items under the

Process Overview

The dispense process is followed with activity ceasing at due diligence. Supply is prohibited / denied. The SoC/agent will be informed of the outcome by the dispenser.

Participants			
Dispenser, SoC / agent			

Annotations may be utilised.

Operational Policy

cancelled.

process.

Systems Dispensing software, PDS





UC4.5.10.11 – Repeats

An electronic prescription may contain medicine(s) with repeats. Upon dispense, one or more prescription items may require a new token for dispense of a repeat. This process would be used for:

- A SoC/agent who is prescribed medicine(s) containing repeats; and
- Dispensers authorising prescription item repeats.

Process Overview

Participants

Dispenser, SoC / agent

During the dispense process, the dispenser records a repeat authorisation into the dispensing system per the instructions (or amendments) of the electronic prescription. Annotations may be entered against the dispense record. The prescription item is passed to the SoC/agent along with the relevant electronic prescription token(s).

Systems

Dispensing software, PDS

SoC /agent Provides e-Receives prescription to medicine(s) and dispenser token(s) Dispenser Scans token Performs Supply and Pass medicine and requests dispensing dispense. Incl. and token to e-prescription due annotation SoC / agent data diligence Generate token Local dispensing system PDS Request received. Dispense record e-prescription received message sent. **Prescription Delivery Service**



UC4.6.9.4 – Resolve prescription owing

Following supply of a prescription as an 'owing prescription' the dispenser will be provided a valid electronic prescription to reconcile against this event. This process would be used for:

• Dispensers upon receipt of an electronic prescription for a prescription owing event.

Process Overview

Following the prescription owing process, a prescriber will provide the outstanding electronic prescription token to the dispenser within timeframes allowed by relevant regulation and policy. The onus is on the prescriber to ensure that the dispenser is provided with a valid prescription. The dispenser will retrieve the electronic prescription from the PDS and reconcile against the owing dispense activity. This may include any necessary annotations. The dispense will be completed and dispense record updated.



Participants

Systems

Dispenser, SoC / agent

Dispensing software, PDS



Consumer Use Cases



 Where a SoC has been prescribed medicine and cho based Evidence of Prescription form. The SoC will have exercise their choice of dispenser. This process wou SoCs prescribed medicines who have received a of Prescription form. 	osen to receive a paper- ave the ability to ald be used for: SoC a paper-based Evidence	f and Prescription
Process Overview The SoC receives the paper-based Evidence of Presc The SoC is able to review the Evidence of Prescription relevant medicines information. The SoC presents the Evidence of Prescription form to their dispenser of o	cription form with token. on form containing PDS he paper-based choice.	very Service
Participants Systems	50	
Operational Policy A SoC may interact with a paper-based Evidence of Prescription form in any way.	System Interaction A paper-based Evidence of Prescription form denot interact with any systems when in the possession of the SoC. The SoC may elect to load their electronic prescription to a conformant mobile application using the token.	Authorised token oes Tokens printed on paper are able to be converted to digital tokens by using a mobile application. A token may be entered to a mobile application for store and view. n Possibility of exception Where a SoC has elected to receive a token only, with no accompanying paper-based Evidence of Prescription form, they will not have the ability to review relevant medicines information from the paper form.

 UC4.3.9 – Shared access Where a SoC has been prescribed medication, they we share their electronic prescription with an agent of the the electronic prescription dispense. This process would be so Cs prescribed medicines who wish to utilise an Process Overview The SoC receives an electronic prescription. The SoC as sharing their electronic prescription. The SoC identifies and method of share. The SoC finalises the share by coelectronic prescription to their agent. Where a mobile application is used, the agent will entities and share and the solution of the solution of the solution. 	ill have the ability to eir choice to retrieve uld be used for: agent. agent. accepts the risk of es the recipient / agent ommunicating their Agent accepts the risk of es the recipient / agent accepts the risk of es the recipient / agent	Pass e- prescription to agent Review e- prescription
(mobile application) process.	PDS	
Participants Systems	· · · · ·	
SoC agent Mohile application mohile Prescription Delivery Service		
intermediary	y, PDS	
Operational Policy The electronic prescription is transferable between parties; the method of transfer is determined by the SoC and their mobile application if applicable.	System Interaction A SoC may elect to share prescription access via conformant mobile applications.	Authorised token Tokens are able to be communicated between parties.
Mobile applications will support SoC consent to share an electronic prescription.		Possibility of system exception A system exception is possible, preventing a mobile application from accessing the PDS. The token will be able to be rendered and scanned at a dispenser regardless. Any additional functionality will be managed by mobile application operators.