

Sunbird: G2P Connect Profile`

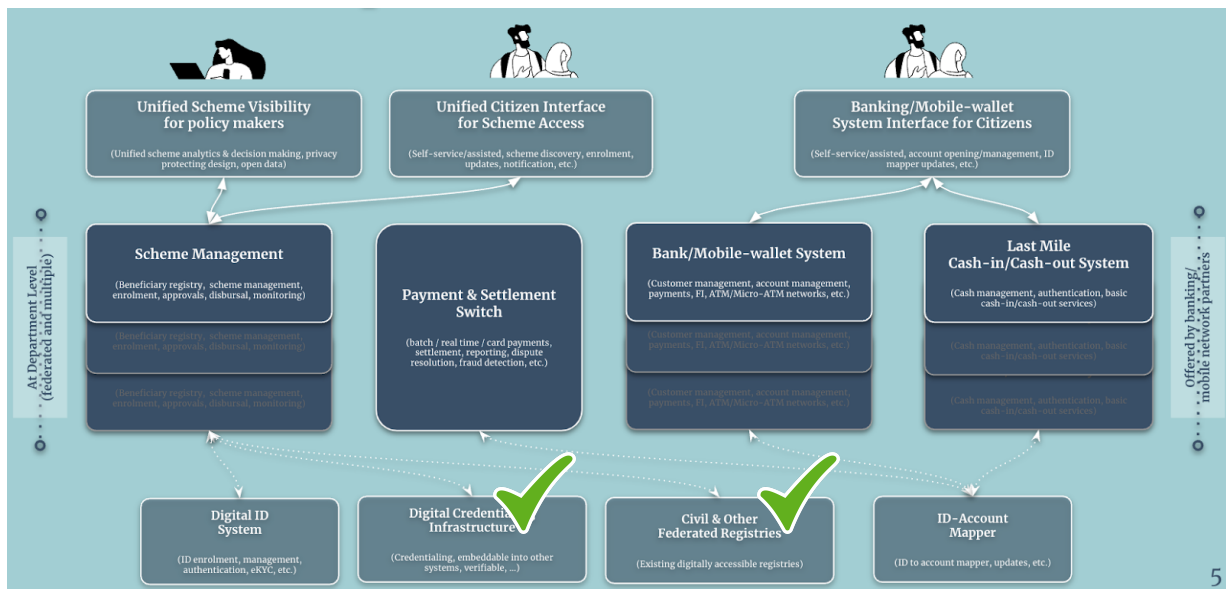
Stated Objective: [2 line mission or objective statement of your DPG]

Sunbird is a set of configurable, extendable, modular digital building blocks for learning and human development solutions, designed for population scale. Sunbird is fully open-sourced, under MIT licence. Sunbird enables adopters to roll-out open platforms as public infrastructure and enable the ecosystem to innovate by leveraging the building blocks, to augment capacity building, collaboration, knowledge management, credentialing, electronic registries, AI for language translation, speech processing and extensive telemetry efforts (among others).

Designed By: [1-2 lines; list names of institutional association and/or technical architects]

Sunbird is designed and developed by its community and the Ekstep Foundation, an India-based *not for profit* foundation, that aims to extend population-scale human development opportunities through a collaborative, universal digital infrastructure.

Scope/Functions: [place green check in the corner of the box indicating your area of activity]



For the G2P Connect initiative, a specific Sunbird building block - Sunbird Registry and Credentialing (Sunbird-RC, in short) - will be employed. Sunbird-RC is designed to allow adopters to rapidly build and deploy next generation electronic registries and verifiable credentials, through configurable schemas and workflows for attestation and verification functions. Sunbird-RC is also open-sourced under MIT licence, and is a listed Digital Public Good in the [DPGA registry](#).

Technical Features and Capabilities Summary: *[4-5 lines]*

- Rapid creation of electronic registries
 - Data harmonisation & attribute management
 - API-based Discovery with consent
 - Telemetry & Aggregated analytics
- Issuance & Verification services for Verifiable Credentials
 - Structured workflow for Self & Issuer-based credentialing
 - Generation, Update & Revocation services of VCs
 - Online (portal-based) verification & Offline (reference SDK) verification of VCs
- Digital wallet/locker for persistence & secure management of documents (VCs/Scanned files)

Current and Planned Deployments: *[List Countries/Institutions with current live implementations of the DPG, and countries/departments with planned implementation (date in parentheses)]*

Live Implementations of Sunbird-RC:

- a. Sunbird's "Registry & Credentialing" building block: Sunbird-RC have been used to power major digital credentialing efforts globally;
 - Digital COVID-credentials: Has been used to generate a standards-based (built using the W3C-VC-1.0 data model, and WHO's DDCC data dictionary) digital credential, which is multimodal and has a cryptographically signed QR-code to hold the COVID-event data. This was deployed in 5 countries (India, Indonesia, Philippines, Sri Lanka and Jamaica) as part of their vaccination systems. Till date, more than 2 billion digital COVID-credentials globally have been generated, through these efforts.
 - Digital credentials in India's national platform for School Education (DIKSHA): Through the DIKSHA platform, more than 100 million *proof-of-learning* VCs have been issued for 7 million+ teachers.

Planned Implementations of Sunbird-RC:

- a. Launch of the issuance service of Health Professional Credentials & Routine Immunisation VCs in India (via the national digital infrastructure established by the National Health Authority, Government of India), by end-2022.
- b. Sri Lanka's National Health registries: The Sunbird-RC registry & credentialing infrastructure is planned to be leveraged to power three national health registries, beginning with a Pilot launch of the Patient registry in Nov - Dec '22.

- c. Issuance of digital skill badges for ancillary health workers in the States of UP & Haryana (India), via the Sunbird-RC VC issuance infrastructure.
- d. Launch of the Student registry and Learner-passbook by the Government of India, in 2023

Interoperability Status with other G2P Connect Building Blocks: *[e.g. current interoperability with [list DPGs] as of October 15, 2022; Complete interoperability with all other G2P Connect blocks as of XX date]*

Integrated:

- MOSIP

*** Work in progress: OpenG2P (evaluation phase)*

Additional Information on the SPG, for reference

1. For more information on the Sunbird-RC DPG, refer below;



Sunbird-RC Discord Community



Sunbird-RC Website

2. For an overview of the role Sunbird-RC can play in population-scale digital transformation program, refer the [webinar](#) by Dr. Pramod Varma on 26-Sept-'22 [***Note: Refer to the time interval from 8:05 - 32.47, for Pramod's briefing on the topic ***]