

ISLA 2021 CDM Roadmap

January 2021



 $\mathsf{Jan} > \mathsf{Feb} > \mathsf{Mar} > \mathsf{Apr} > \mathsf{May} > \mathsf{Jun} > \mathsf{Jul} > \mathsf{Aug} > \mathsf{Sep} > \mathsf{Nov} > \mathsf{Dec}$

Digital Strategy & Analysis

What is the ISLA Digital Roadmap?

ISLA Mambar pain points, Association C

ISLA Member pain points. Association CDM development alignment. Ringfencing ISLA IP. Monetisation of Digital footprint. Governance architecture.

CDM Minimum Viable Product

Develop on CDM Pilot to create MVP for SL Extend product model/lifecycle events: Allocation, Returns & billing. Incorporate GMSLA elements

Legal Document Digitisation

Complete Clause Library & Taxonomy for GMSLA including draft wording

Digital Advocacy

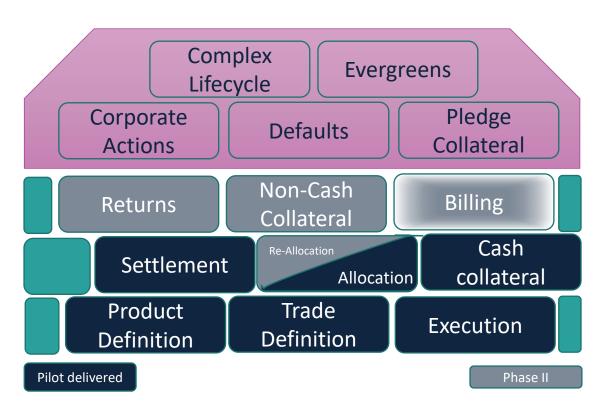
Event and regulatory engagement. Membership bilateral meetings to promote CDM usage (~53% of DSG survey reported CDM likely, extremely likely or is in budget for 2021)

CDM Phase II Scope: A MVP for Securities Lending



Goal Statement:

Develop the CDM sufficiently to ensure that a firm can use it to enter a loan of equities or fixed income, with a principal or agent counterpart, settle it, define its collateral schedule, cash or non-cash, bill for it and then exit the loan early or at term.



Key Deliverables

- Minimum viable product for a securities loan
- Model Re-allocation event inc. basic cancel and amend
- Model Part & Full-Return event
- Model Billing function for lifecycle events modelled
- Model Non-Cash Collateral schedule and link to trade
- Assist members in testing and using model

Resource schedule

- ☐ Target start mid-February
- Eight 2-week sprint cycles (see later slide)
- End mid 2021

Future Deliverables

- Backdated amends and cancels- automation
- Pledge collateral concepts
- Corporate actions- automation
- Billing adjustments for the above events
- Evergreen and cancellable trade types*
- Clause library and legal agreement integration**

^{*}If time allows we have enough information left from pilot to develop these in this phase

^{**}This is largely due to wider CDM concepts required for integration that ISDA are working through

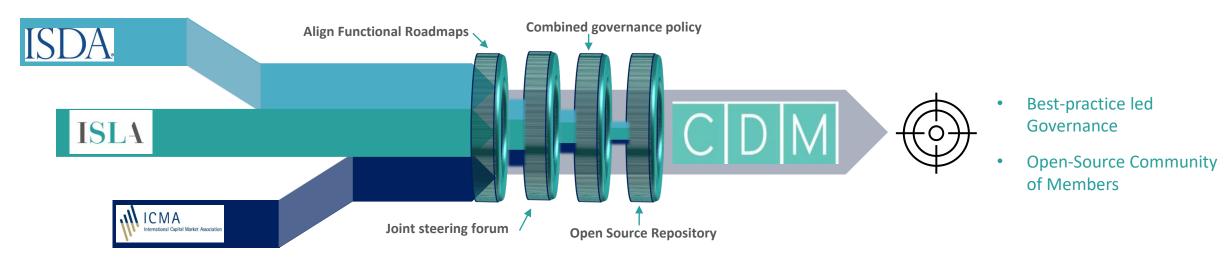
Timelines



Phase	Start	End	Status
Scoping & Engagement	01-Jan-21	19-Feb-21	С
Technical Readiness	22-Feb-21	26-Feb-21	G
Non- Cash Collateral	01-Mar-21	19-Mar-21	G
Part & Full Returns	10-Mar-21	09-Apr-21	N/S
Re-allocations	11-Apr-21	07-May-21	N/S
Billing	25-Apr-21	04-Jun-21	N/S
Product extensions	24-May-21	04-Jun-21	N/S
Prep broader public access	29-May-21	11-Jun-21	N/S

Trade Association Collaboration





Associations are collaborating towards the same future goal, to benefit the whole industry

- An open-source model moves cost of development away from TAs while retaining best practice governance
- ISLA & ISDA to begin sharing project management environments and align development goals Feb 2021; collateral big focus for both TAs
- ISLA pilot code will be contributed to CDM 3.0 released end Q1 2021
- ISLA drafting a governance proposal for review by ISDA late Q1 2021, outlining how an open-source community may work
- ISLA and ICMA already attend ISDA CDM Ex-Co and Architecture committee; ISDA have agreed to open up to ISLA members immediately
- ICMA and ISDA attend ISLA CDM WGs
- ICMA due to sign with REGnosys to further CDM development on repo; ISLA/ICMA to share functional roadmaps to realise synergies
- Ongoing discussions with PASLA, and others to keep up to date with work; presentation to RMA board mid- Feb of work to date

ISLA

WG process

THEME #1 - SCOPE

Epics and User Stories



Epics

The Candidate Requirements have been used to create an initial set of Epics



User Stories

Describing technical and non-technical dependencies required in order to deliver the Candidate Requirements.



Project Management

Two week sprints with an agreed set of deliverables.





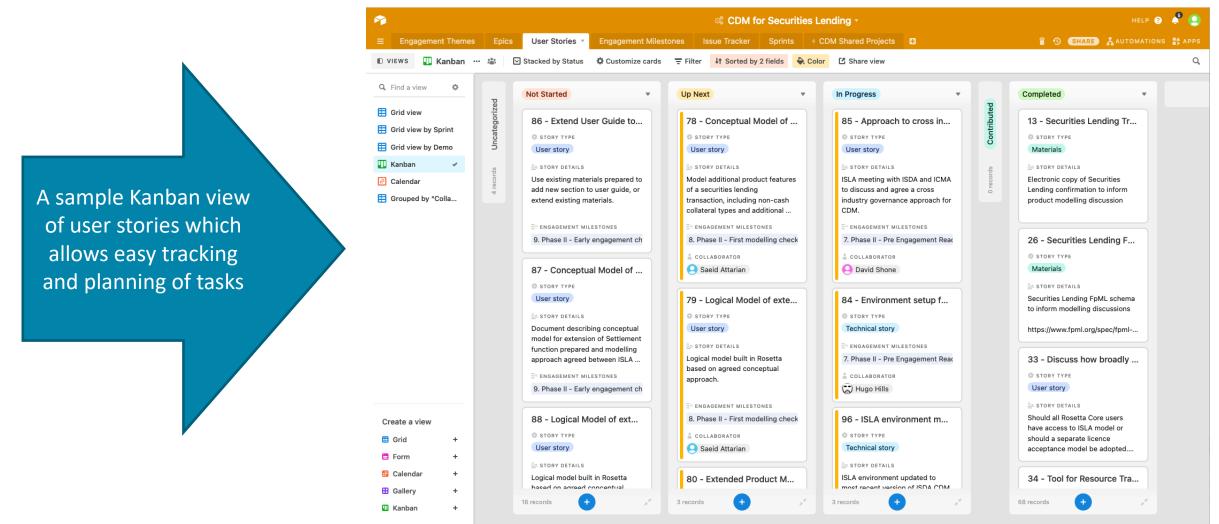




THEME #1 - SCOPE

Airtable – User Stories

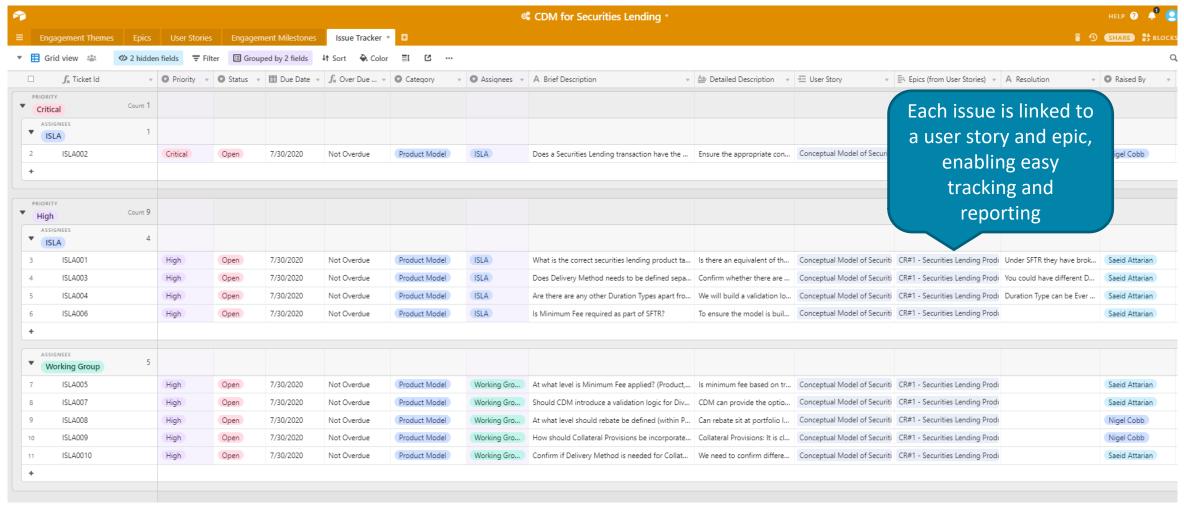




THEME #1 - SCOPE

Airtable – Issue tracker







THEME #2 – ENVIRONMENT

Rosetta

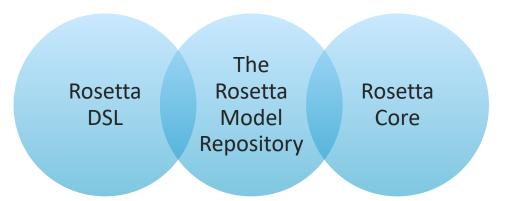


REGnosys will use Rosetta as the development environment and suite of technical tools to accelerate delivery of the CDM for Securities Lending.

Rosetta is a domain-model development toolkit that allows users to efficiently design and develop domain models, map them to other models, databases or messaging formats, and to test and deploy model-based processes, applications and services.

At a high level, Rosetta is made of three components, being a mixture of open-source and proprietary components and which are described in the below diagram.





The goals and objectives have been used to define one Environment Epic:

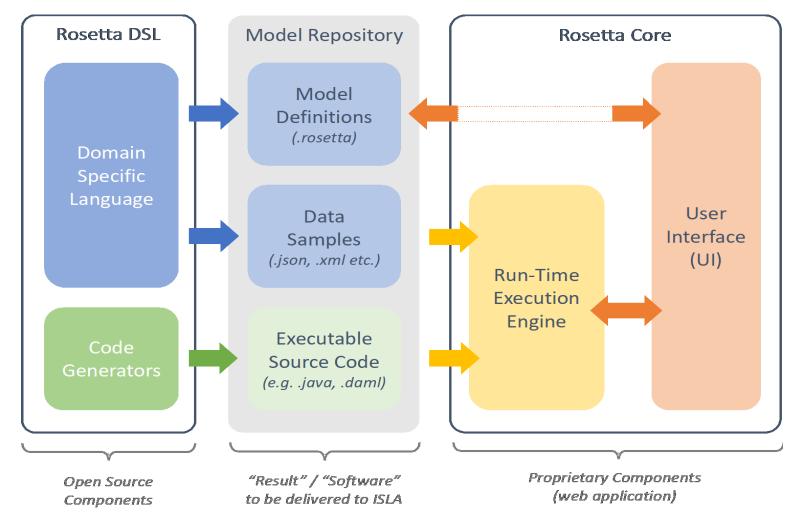
"CDM for Securities Lending Environment setup in Rosetta Core."



THEME #2 - ENVIRONMENT

Rosetta Components





Rosetta Core is available under a free "community edition"

THEME #2 – ENVIRONMENT

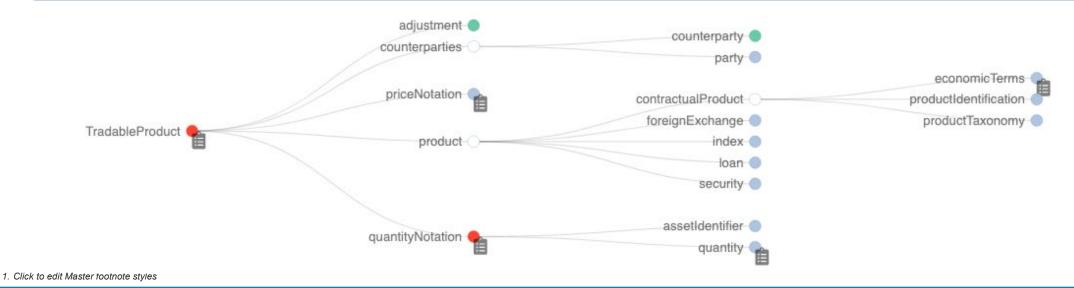
Delivery and Demonstration Material



To accelerate integration efforts by ISLA members, each model release will contain an executable source code distribution, also available for download in Rosetta Core.

Initially provide support for the Java platform, which is widely adopted, open source and freely available.

Visualisation tools in Rosetta Core will help communicate the structure and functionality of the delivered model and demonstrate a path to standardisation of industry processes.



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THEME #2 – ENVIRONMENT

Rosetta Core

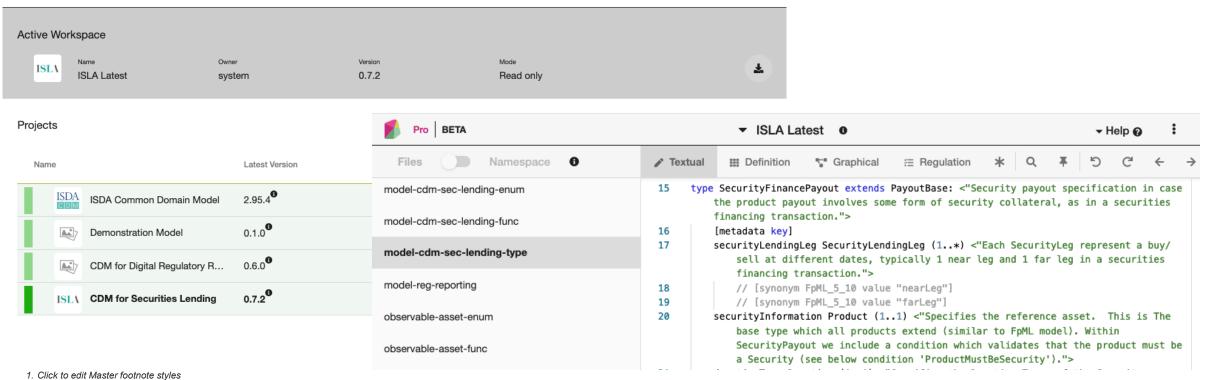


Files that represent the CDM for Securities Lending have been added to Rosetta Core.

A read only ISLA model is available to all registered users.

An editable files is available when an ISLA specific workspace is created by authorized users.

× Workspace Manager



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THEME #4 – PRODUCT AND EVENT MODELLING

Core Modelling Artefacts



Extend
Securities
Lending Product
model

Use of existing CDM models.

Extend existing model definitions

Extend Securities Lending Event model.

Extend functions built in initial phase to cover re-allocation and settlement of the return leg

Create new function to cover the Billing process for products and events currently in scope

Second phase to consider further terms from GMSLA for termination events, as well as ancillary documentation on collateral schedules and billing methodologies

The goals and objectives have beer used to define one Product Modelling and three Function Modelling Epics



THEME #4 – PRODUCT MODELLING

FpML and CDM



ISDA Common Domain Model (CDM)

- Bootstrapping ISDA CDM (will be used as "Third Party Material" i.e. excluded from the project deliverables).
- Inherit all ISDA CDM model components from the outset and will extend those by following the CDM design principles, reusing components wherever appropriate.
- CDM for Securities Lending shall eventually be contributed back and merged together with the ISDA CDM.
- The ISDA CDM is already supported by the Rosetta Model Repository and Rosetta Core has been extended to support editing of ISDA CDM model extensions.



Integration with other models

- As demonstrated in the Showcase Event at the conclusion of the first phase the CDM, and Rosetta, is able to support model to model mappings.
- The mappings allow existing data models to be integrated with the CDM creating an immediate path to adoption without significant engineering cost.
- Further model to model mapping work will need to be performed during the MVP phase to support the model changes being made, and any additional platforms which would like to connect to the CDM.

https://www.isda.org/a/z8AEE/ISDA-CDM-Factsheet.pdf

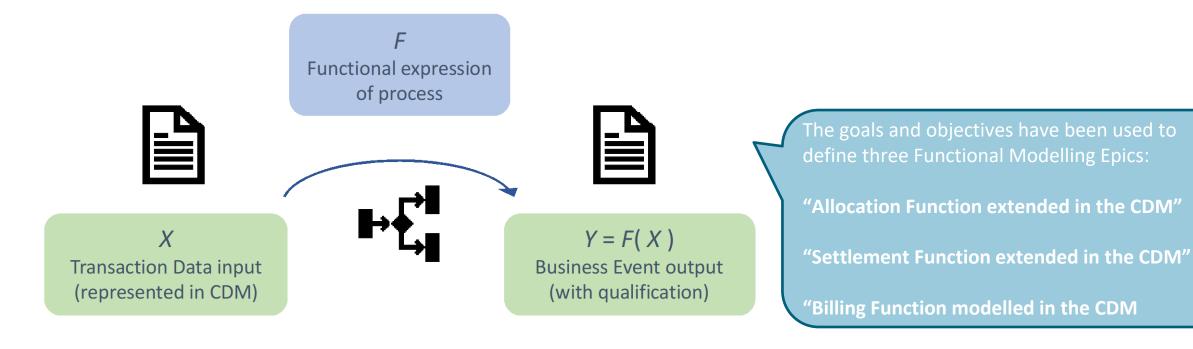


THEME #5 – FUNCTIONAL MODELLING





The CDM allows a *functional* approach to modelling processes, where events are represented by CDM functions: Y = F(X)



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