

# Content

00:00 What is new in ADE 1.3 – Andrew Cooke

00:08 Example implementation – Erwin Speybroeck

00:16 Example implementation – Thomas Pekeler

00:24 OpenAPI Code Generation – Andreas Schultz

00:34 Generic Data API – Graham Moore

00:42 Questions and discussion

# What is ICAR Animal Data Exchange?

**ICAR is the International Committee for Animal Recording (icar.org)**









A non-government organisation, with members from 57 countries.

- Guidelines and standards for animal identification and recording
- Certifying equipment and processes in id, recording, genetic evaluations
- Stimulates research, innovation, and continuous improvement
- Provides services for international collaboration

**The Animal Data Exchange working group** has representatives from a range of herd recording, equipment, and software companies.

The full working group meets quarterly, and the technical group meets fortnightly. New members are welcome, and specialist expertise in livestock data is valued.

# How to get started <https://github.com/adewg/ICAR>

 collections	← Arrays or lists of resources
 docs	← Specification and other documentation
 enums	← List values included in resources
 examples	← Example resources
 resources	← The main things to GET or update
 types	← Other data types included in resources
 url-schemes	← OpenAPI methods to GET or update resources and collections
 well-known	← Identifier schemes for various entities

# “Things” you can transfer with ADE

Resource Types	Version
Animal	1.0
Animal Sets (Groups)	1.1
Devices (that capture data)	1.0
Feed and Rations	1.2
Identification Schemes	1.2
Locations	1.0
Medicines	1.1
Semen Straws and Embryos	1.0

Resource Types	Version
Gestation	1.1
Lactation	1.0
Test Day	1.1
Daily Milking Averages	1.2
Breeding Values	1.1
Feeds, Rations, Storage	1.2
Feed Recommendations	1.2
<b>Group Statistics</b>	<b>1.3</b>

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# “Observations or Events” in ADE

Arrivals and Departures	Registration and Deaths	Milking Visits
Drying Off	Lactation Status	Test Day and Results
Heat	Insemination	Abortion
Do Not Breed	Parturition	Pregnancy Check
Mating Recommendation	Reproductive Status	Weight
Join and Leave Animal Sets	Linear Conformation Scores	Body Condition Score
Health Diagnosis	Health Treatments	Feed Intake
Group Sample Weights	Group Treatments	Type Classification
Group Arrivals/Departures	Herd & Group Statistics	Withdrawals

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