



Mira Costa College



California
Community
Colleges

CCC Data

AT A **GLANCE**

CCC Data: Informing Student Success Programs

Systemwide services generate a large volume of actionable data that can be leveraged to improve student outcomes and facilitate institutional improvement. CCC Data allows this information to be connected to provide personalized experiences for students and to support research opportunities and decision-making driven by legislation and the greater strategic vision of the California Community Colleges.

Traditionally, application data is “siloes” within application databases and at individual colleges. CCC Data was created in order for these data to be appropriately leveraged in systemwide analytics where they may ultimately benefit student success.

CCC Data aggregates data from services including but not limited to CCCApply, CCC MyPath, Multiple Measures Placement Service, Canvas, COCI, and C-ID with more data sets coming soon.

Colleges and districts may receive data to generate reports, answer questions about enrollment and completions and identify trends that may inform student success programs, such as developing personalized guidance that helps students along their educational journeys.

CCC Data is an Amazon Web Services (AWS) cloud-based solution that consists of:

- A **data lake** that contains the source data which populates the data warehouse for data mining and auditing purposes (not accessible by colleges)
- A **data warehouse** that acts as a structured source of master data for use by college researchers, whether accessed through the Data Warehouse Report Server or a direct connection which enables colleges to connect applications to the Data Warehouse, such as Tableau or Power BI

As these data may contain highly-sensitive personal identifiable information (PII) such as Social Security numbers and LGBTQ data, CCC Data adheres to the highest federal, state and systemwide security and privacy standards as designed for college researchers.



CCC Data: History and Milestones

- 2008** — CCC Technology Center began work on an architecture for systemwide data, information and technology infrastructure, including Business Intelligence
- 2016** — CCC Technology Center established a data lake to support Canvas, CCCApply and assessment data
- 2017** — Data lake proof-of-concept successfully completed
- 2018** — The Data Warehouse Report Server's data warehouse pilot was kicked off with seven colleges, and it also narrowed its focus to support legislation for providing an LGBTQ report to all colleges
- 2019** — Additional data sources added to the data lake and data warehouse
- 2020** — CCC Data released to production, supporting CCCApply application, international application, Promise Grant, Multiple Measures Placement Service
- 2021** — MyPath, Canvas, COCI, and C-ID data added, access expanded to support a direct connection
- 2022** — CCC Data Warehouse integrated with CVC-OEI, Keycloak support added for secure Single Sign-on access

Contact Us

For more information about CCC Data and the ways it can benefit your college, please send a query to cems@ccctechcenter.org.



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