

# CalAmp K-12 Student Ridership: Transforming Safety and Efficiency

Automatic identification (Auto ID) technology revolutionized supply chain management, manufacturing, healthcare, and more, redefining standards for safety and efficiency. The ability for machines to instantly capture data about a shipment, patient, instrument, or prescription virtually eliminated human error, streamlined end-to-end operations, and saved lives.

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This same technology forms the backbone of student ridership, ensuring students are in the right place. Doing so guarantees better safety and efficiency and enables a host of critical reporting capabilities, including contact tracing and state-mandated funding compliance.

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With CalAmp Student Ridership, students are scanned when boarding and exiting buses via bar code or RFID. Driver MDT tablets clearly display identifying details, including optional photos, and guide drivers to avoid pickup and drop off mistakes.

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## ...How It Works ...



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### Boarding the bus:

- Driver validates students as they scan.
- Driver can look up “unknown” student if needed and allow or deny boarding.
- System ensures there are no duplicate riders.
- Parent receives boarding notification in Here Comes The Bus, with map view.

2

### “Wrong stop” alert:

- Notification on driver MDT tablet prevents student from exiting bus too early.

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### Bus is approaching:

- Parent notification is triggered when bus enters radius distance set by parent.



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### Bus arrives:

- Students scan while exiting.
- Parent receives exit notification with map view.



## ···How Administrators Use It···

Expansive Student Ridership reporting options empower administrators to track individual rider history, do contact tracing, and ensure state-mandated funding compliance.

### Ridership History:

Date	Order...	Route	Tier	Vehicle	Stop	Time	Type	Actual	Vehicle	Scan Time	Deviation	Scan Location	Scan Type
02/10/2020	1	53 DINO/AM	*DINO	53 DINO	ALFALFA	08:21 AM	Pickup	1	53 DINO	08:22 AM	1	4950 South	Student
02/10/2020	2	53 DINO/AM	*DINO	53 DINO	SMS B	08:43 AM	Pickup	2	53 DINO	08:42 AM	-1	18582 East	Student
02/10/2020	3	53 DINO/PM	DINO*	53 DINO	SMS B	04:00 PM	Dropoff	3	53 DINO	03:49 PM	-11	18612 East	Student
02/10/2020	4	53 DINO/PM	DINO*	53 DINO	ALFALFA	04:18 PM	Dropoff	4	53 DINO	04:19 PM	1	4950 South	Student
02/11/2020	7	53 DINO/PM	DINO*	53 DINO	SMS B	04:00 PM	Dropoff						
02/11/2020	8	53 DINO/PM	DINO*	53 DINO	ALFALFA	04:18 PM	Dropoff						

Students didn't take the bus home

### Contact Tracing:

RESULTS [Report Parameters](#) Track who was on the bus and for how long

Student Name	Student Id	Primary Exposure Time	Secondary Exposure Time	Primary Group	Vehicle	ON Scan Date/Time	OFF Scan Date/Time
Carlos S	21642	00:09:24	00:00:00	USD School Bus Fleet	100 GIRAFFE	11/02/2020 06:55:31 AM	11/02/2020 07:04:55 AM
Fatima M	34726	00:09:20	00:00:00	USD School Bus Fleet	100 GIRAFFE	11/02/2020 06:55:35 AM	11/02/2020 07:04:55 AM
Mary C	58496	00:07:18	00:00:00	USD School Bus Fleet	100 GIRAFFE	11/02/2020 06:57:37 AM	11/02/2020 07:04:55 AM
Bill W	38172	00:00:00	00:33:20	USD School Bus Fleet	100 GIRAFFE	11/02/2020 08:17:27 AM	11/02/2020 08:50:47 AM

### Funding Compliance Reporting: Ensure reimbursement with automated reporting

Bus Stop #	School #	Student Student ID #	Grade	Survey Code #	Monday 04/22/2024		Tuesday 04/23/2024		Wednesday 04/24/2024		Thursday 04/25/2024		Friday 04/26/2024	
					AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
6	3		Grade 5	1	[ ]	[ ]	[ ]	[x]	[ ]	[x]	[ ]	[x]	[ ]	[ ]
5	5		Grade 4	1	[ ]	[ ]	[ ]	[x]	[ ]	[x]	[ ]	[x]	[ ]	[ ]
3	2		Grade 3	1	[ ]	[ ]	[ ]	[x]	[ ]	[x]	[ ]	[x]	[ ]	[ ]

School Name	Student Count
PCS	170
PCS Jr/Sr	330
PCA	147