

WHAT IS



DATA AT YOUR FINGERTIPS

Gone are the days where companies had to use one tool for integration, another for ETL and yet another for data warehousing. K3 delivers powerful integration, streaming ETL, and data warehousing right off the shelf. Hundreds of adapters and intuitive user interface enables teams to do more with less. Simple.

+1.646.461.3311



DATA STREAM

ID	source	target	customer	id	id	id	id	id	id	id	id	id
3520247	40	0	DHC	6.1099	17.9728	17.9728	17.9728	17.9728	17.9728	17.9728	17.9728	17.9728
3520248	19	0	DHC	5.4304	16.2925	16.2925	16.2925	16.2925	16.2925	16.2925	16.2925	16.2925
3520250	20	0	DHC	4.9523	16.9819	16.9819	16.9819	16.9819	16.9819	16.9819	16.9819	16.9819
3520251	9	1	HOU	4.2221	16.8202	16.8202	16.8202	16.8202	16.8202	16.8202	16.8202	16.8202
3520268	30	0	DHC	8.0068	15.3118	15.3118	15.3118	15.3118	15.3118	15.3118	15.3118	15.3118
3520269	36	0	DHC	7.8198	17.3502	17.3502	17.3502	17.3502	17.3502	17.3502	17.3502	17.3502
3520267	34	2	HOU	4.779	16.7095	16.7095	16.7095	16.7095	16.7095	16.7095	16.7095	16.7095
3520272	29	0	DHC	8.7952	16.7207	16.7207	16.7207	16.7207	16.7207	16.7207	16.7207	16.7207
3520274	41	2	HOU	4.378	15.9779	15.9779	15.9779	15.9779	15.9779	15.9779	15.9779	15.9779
3520282	18	0	DHC	5.6944	15.4017	15.4017	15.4017	15.4017	15.4017	15.4017	15.4017	15.4017
3520281	40	1	DHC	4.8461	15.9452	15.9452	15.9452	15.9452	15.9452	15.9452	15.9452	15.9452
3520288	65	1	DHC	6.7935	16.3209	16.3209	16.3209	16.3209	16.3209	16.3209	16.3209	16.3209
3520290	49	3	HOU	6.5313	16.1445	16.1445	16.1445	16.1445	16.1445	16.1445	16.1445	16.1445
3520297	16	1	HOU	4.8373	15.8995	15.8995	15.8995	15.8995	15.8995	15.8995	15.8995	15.8995
3521102	43	1	DHC	4.3838	15.2448	15.2448	15.2448	15.2448	15.2448	15.2448	15.2448	15.2448
3521104	67	1	DHC	7.2535	15.9566	15.9566	15.9566	15.9566	15.9566	15.9566	15.9566	15.9566
3521106	59	1	DHC	7.6068	15.1167	15.1167	15.1167	15.1167	15.1167	15.1167	15.1167	15.1167
3521109	65	1	DHC	4.8988	14.4469	14.4469	14.4469	14.4469	14.4469	14.4469	14.4469	14.4469
3521114	49	3	HOU	4.1121	17.0808	17.0808	17.0808	17.0808	17.0808	17.0808	17.0808	17.0808
3521119	78	15	LAD	1.251	17.8944	17.8944	17.8944	17.8944	17.8944	17.8944	17.8944	17.8944

WHAT IS DATA STREAM?

Data Stream is a central hub of K3. While many integration tools move data, they don't all save data. K3 saves every piece of data to enable users to search through large data sets. K3 uses a distributed indexing process to make moving through large amounts of data simple.

SOURCE DATA

When K3 connects to a data source via an adaptor, that original data is instantly saved in an un-altered format. In many cases this provides a digitized pre-ETL view of data for analysis.

ID	source	target	customer	id	id	id	id	id	id	id	id	id
3513887	47	2	BAL	6.636	20.9669	20.9669	20.9669	20.9669	20.9669	20.9669	20.9669	20.9669
3513934	18	0	BAL	12.5566	27.4337	27.4337	27.4337	27.4337	27.4337	27.4337	27.4337	27.4337
3514061	33	1	BAL	12.4146	20.3544	20.3544	20.3544	20.3544	20.3544	20.3544	20.3544	20.3544
3514069	25	0	BAL	12.9816	21.5149	21.5149	21.5149	21.5149	21.5149	21.5149	21.5149	21.5149
3514142	18	1	BAL	11.457	18.2039	18.2039	18.2039	18.2039	18.2039	18.2039	18.2039	18.2039
3514196	29	1	BAL	1.229	20.9116	20.9116	20.9116	20.9116	20.9116	20.9116	20.9116	20.9116
3514225	9	0	BAL	1.7726	22.8148	22.8148	22.8148	22.8148	22.8148	22.8148	22.8148	22.8148
3514310	33	1	BAL	2.7492	19.3036	19.3036	19.3036	19.3036	19.3036	19.3036	19.3036	19.3036
3514342	6	0	BAL	10.2159	21.9144	21.9144	21.9144	21.9144	21.9144	21.9144	21.9144	21.9144
3514382	15	0	BAL	9.4793	22.0033	22.0033	22.0033	22.0033	22.0033	22.0033	22.0033	22.0033
3514404	7	0	BAL	11.8678	22.9025	22.9025	22.9025	22.9025	22.9025	22.9025	22.9025	22.9025
3514430	26	0	BAL	4.2772	19.4905	19.4905	19.4905	19.4905	19.4905	19.4905	19.4905	19.4905
3514523	19	0	BAL	0.7059	20.9194	20.9194	20.9194	20.9194	20.9194	20.9194	20.9194	20.9194
3514562	24	0	BAL	11.1034	21.9427	21.9427	21.9427	21.9427	21.9427	21.9427	21.9427	21.9427
3514566	33	1	BAL	3.1984	19.2841	19.2841	19.2841	19.2841	19.2841	19.2841	19.2841	19.2841
3514605	20	0	BAL	4.2564	22.0381	22.0381	22.0381	22.0381	22.0381	22.0381	22.0381	22.0381
3514674	38	2	BAL	1.6624	21.5523	21.5523	21.5523	21.5523	21.5523	21.5523	21.5523	21.5523
3514695	11	0	BAL	2.3495	23.115	23.115	23.115	23.115	23.115	23.115	23.115	23.115

TARGET DATA

After data is processed in K3's streaming ETL, it is saved again. This allows the user to quickly navigate the "before and after" of ETL. Like Source data, Target data is instantly indexed using K3's distributed indexing process.

FILTERING DATA

The beauty of immediately indexing Source and Target data is that it allows users to rapidly navigate through big data sets. Even if you are looking for a little piece of data in a huge data set, K3 is able to respond nearly instantaneously.





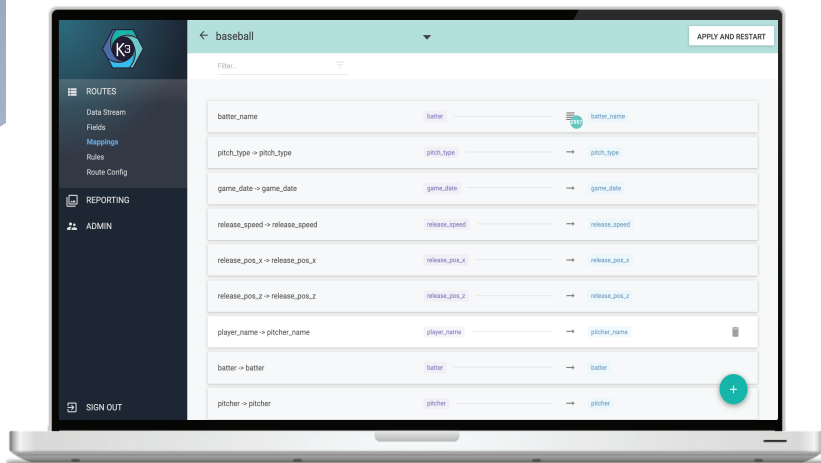
MAPPING

MAPPING

It's inevitable. If you are integrating systems you are going to run into mappings. Typically buried in a technical tool, K3 delivers massive efficiency by putting this greatest source of change in the hands of those who best know the data - business users. As data comes into K3, mappings are executed in a streaming manner to keep data flowing uninterrupted downstream.

PASS THROUGH MAPPINGS

Pass through mappings transport values from one system to another without altering the underlying data. Typically this looks like a header change. In one system, it's called "Company Name". In another it's called "Legal Entity". These mappings create the field level relationships.



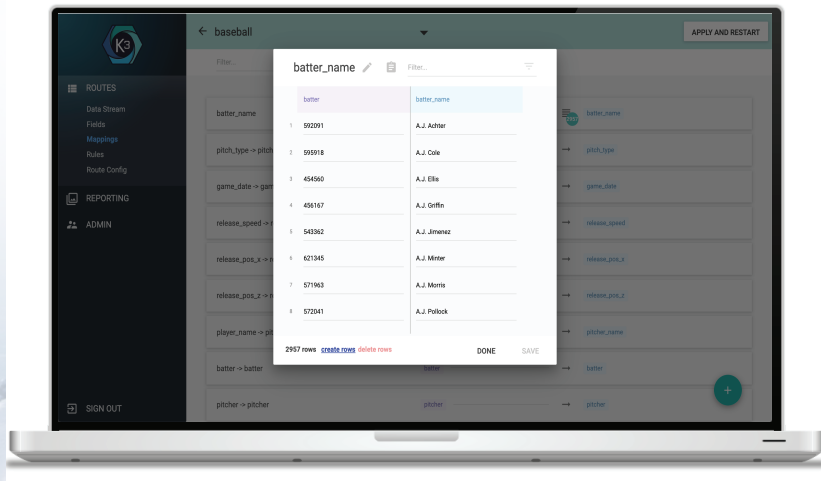
VALUE MAPPINGS

Value mappings allow the user to transform the underlying data as well as the fields. If the Company Name comes in as "ACME Incorporated" and "ACME Corp." value mappings let you transform these to a standard value such as "ACME Inc."

This is a simple example, but K3 mappings let you create deep relationships between the data models of source and target systems.

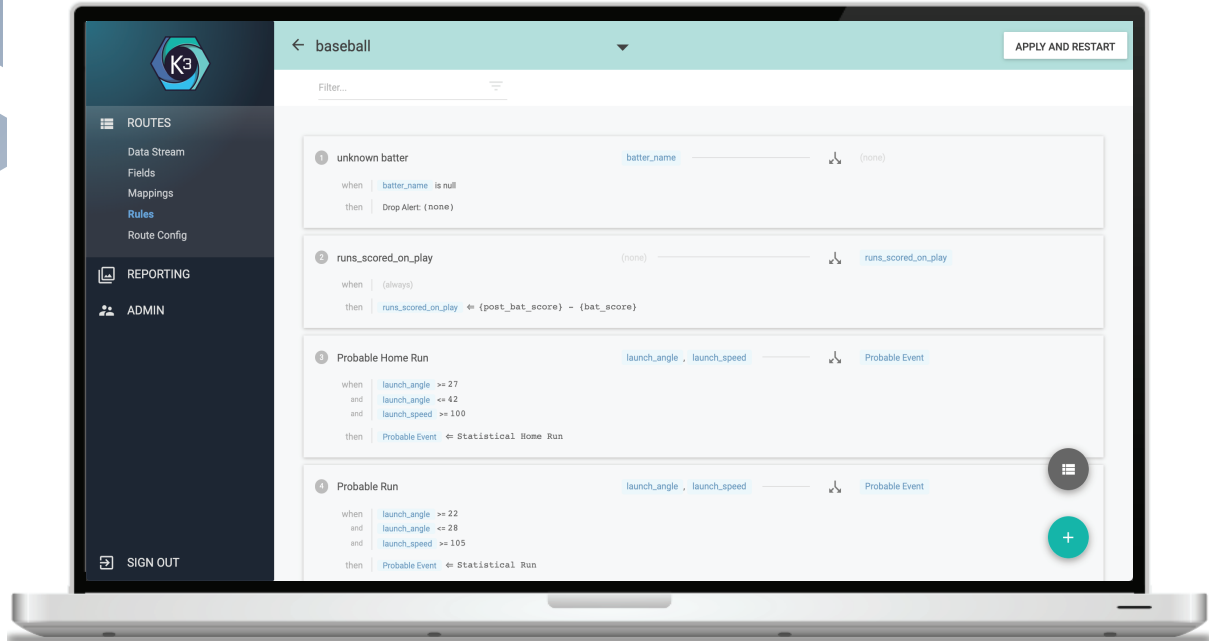
INDIRECT MAPPINGS

Systems can use the same data for entirely different purposes. For example a General Ledger would have quite a different data model than the Transaction System that feeds it. K3's Mappings let you handle this scenario by dynamically creating relationships between any fields to fulfill the target's data needs. As data needs change, these can be updated on the fly to keep data flowing and systems connected.





RULES ENGINE



RULES MANAGER

Data integration is never as easy as simply pointing fields from one system to fields in another. Systems think about data entirely differently and thus data integration requires more than just mapping. That's why K3 has Rules.

K3's Rules engine enables you to solve complex data problems. It covers conditional transformations, arithmetic formulas, and even data validation.

Need to ensure all your dates are formatted a certain way? Need to concatenate data or strip apart other elements? Need to prevent bad data from going downstream? No problem. Like everything else in K3, rules are entirely built for the non-technical analyst in an intuitive user interface.

STREAM BASED RULES ENGINE

K3 is a real-time, streaming platform, when data transits K3, Rules are automatically triggered. There is no waiting for batches to trigger. As data enters K3, it hits Mappings and then the Rules Engine before being output.

Rules are simple "When, Then, Else" CASE statements. Users setup "When" criteria to segment data to which the rule applies. Then add actions for the "Then" criteria, and if desired some "Else" criteria.

SOME ACTIONS

SET VALUE: Change values based on conditions

COPY VALUE: Copy a value from another field

SWAP VALUE: Conditionally swap values between two fields

VALIDATION: Ensure data is correct before sending downstream

FORMULA: Used for arithmetic operations, concatenating fields, converting date formats. Users can even input any valid java formula to cover all sorts of curveballs

