Enhanced Data Table Component Feasibility

The new cyber enhanced data table is a component designed to encapsulate emerging tabular interactive UX requirements. The *primary* goal is to standardize microinteraction patterns so that they can scale economically by sharing with more than one table instance. The *secondary* goal is to exploit cross-product collaboration in a way that allows us to share micro-frontend abstracted components to the benefit of all teams.

Enhanced tabular microinteractions:

Feature	Description	
Filter Header	A horizontal strip of columned components that contains stateful filter inputs and chips. This element is not sticky.	
Dynamic Filters	Dynamically populate the Filter Header strip with category typed input components (free-form, date, time, yes/no, severity,). Each dynamic component would act as its own stateful removal chip.	
Horizontal Scrolling	Optionally allow columns to scroll out of view horizontally. Not to preclude this functionality.	
Row Hover Context Icons	Present a contextual floating translucent icon panel on the far right upon hover of a single row, temporarily obscuring the far right column(s).	
Tooltips on Column Headers	Display a floating text message describing the column upon column name hover.	
Isomorphic <u>CSV export</u>	construct, name, timestamp, and download a CSV file in real-time based upon the able's <u>asynchronous</u> data source. No server-side API needed.	

Guiding Considerations:

Established visual language and branding

Data Table UX Guidance

Third party roadmaps | Vuetify

Relevant Vuetify v2 Data Table Documentation

Quality assurance and testability

Author an initial test suite for the enhanced table component from which future instance tests are based. Add the data-qa prop to the conversion process.

Inter-component communication

Provide / Inject

Existing QOMPLX product frontend dependencies

Vuetify framework versions by product:

Insurance	Universe	QSim	Cyber
2.3.21	2.2.18	2.3.17	2.3.1

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Component containership:

EnhancedTable
VDataTable
VData
VSimpleTable
VDataTableHeaderDesktop
EhancedTableFilterStrip
EhancedTableFilterText
EhancedTableFilterDate
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Implementation:

The ideal implementation approach is to progressively iterate while leveraging what we've already learned and acknowledging legacy constraints. Ideally we would augment existing code instead of replacing. There are currently seventeen (17) data table instances in the Cyber frontend. Presumably all new (greenfield) tables will utilize the enhanced table component. However existing tables will likely be upgraded in phases. The conversion process might include a linear self-validating wizard (figma plugin) that will convert a legacy v-data-table signature (props, slots, events, headers) and generate the new component configuration object/JSON.

Cross-product Implementation:

Providing that the product frontends share compatible Vue / Vuetify versions the enhanced table component can potentially be referenced in a sibling product's build with webpack aliasing.