

# Apparatus Features

The current list of features includes:

- ECS at its maximum. A complete Unreal Engine integration of the [data-oriented](#) workflow.
- Loyal to the ecosystem. Both C++ and Blueprint development are supported.
- Best of two worlds. Flexible UObject-based [Details](#) and performant struct-based [Traits](#).
- Pedal to the metal. The Chunk-based data storage is hardware-first by design. Quite a bit of performance optimizations on top: Filter-based caching, fast bit-array masking, mainline Component indexing and more.
- Power at hand. [Lambda](#)-based operations with an automatic argument delivery.
- Querying with ease. A versatile Component-including and Component-excluding filtering for the Mechanics.
- Bitwise [Flagmark](#) filtering support for boolean-based states.
- Straightforward editing. Assign and customize your [Trait/Detail](#) blocks right from the [Details Panel](#) in Unreal Editor.
- Multiple Details of the same class on a single Subjective are supported. All of the available Detail combinations are processed in the operating body.
- Inheritance at best. The Detail classes can be inherited for extra modularity and flexibility.
- Dedicated in-Editor user experience touches for some clear reading, validation and overall ease of use.
- Full concurrent (multi-threaded) iterating support with a dedicated compile-time [Solid](#) semantic.
- Ready to speak. An elegant and versatile custom [networking](#) solution built upon the Unreal's replication and RPC functionality.
- [Steady-ticking](#) implementation for some extra stability of your game frame-dependent logic.
- Thoroughly documented [API](#) with a dedicated [user manual wiki pages](#).

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