If you're building a taxonomy from the **top-level Tridium enterprise** down to **detailed product and component levels**, the answer is:

✅ **You will likely need multiple taxonomies working in coordination**—each representing a different classification axis (facet) to effectively capture Tridium’s product ecosystem.

**📚 Here's how your effort maps to taxonomy types:**

| **Taxonomy Type** | **Applicable?** | **How it Applies to Tridium Products** |
| --- | --- | --- |
| **Functionality-based** | ✅ Essential | Use this to classify products by what they do: - *Integration Platforms* (Niagara Framework) - *Supervisory Software* (Niagara Supervisor) - *Edge Control Devices* (JACE, Edge 10) - *Security & Access Management* (Niagara Enterprise Security) - *Protocol Extensions* (Niagara Drivers) |
| **Industry-specific** | 🔶 Optional | Tridium primarily serves the **building automation** and **industrial IoT** markets. If you want to tailor product info per **industry vertical** (e.g., commercial buildings, data centers), this adds value, especially for marketing or solution architects. |
| **Technology Stack** | ✅ Complementary | Helps organize components by layer: - *Hardware*: JACE, Edge 10 - *Middleware*: Niagara Framework - *Cloud/Remote Services*: Niagara Cloud Suite - *Extensions*: Drivers, Analytics |
| **User-role-based** | 🔶 Optional | Useful for structuring content around audience needs: - *System Integrators*: want drivers, install guides - *Facility Managers*: want dashboards, analytics - *OEMs*: want customization and licensing |
| **Deployment-type-based** | ✅ Helpful | Helps differentiate Tridium’s **deployment models**: - *On-premise*: JACE, Supervisor - *Edge devices*: Edge 10 - *Cloud-based*: Niagara Cloud Suite |
| **Product Line Hierarchy (custom)** | ✅ Primary Backbone | This would be a **custom hierarchical taxonomy** from Tridium Enterprise > Product Families > Specific Products > Versions > Modules. It gives you the enterprise-down-to-feature structure you’re aiming for. |

**📌 Recommendation**

Build a **hybrid taxonomy system** with:

* A **primary hierarchical taxonomy** for product lines and component structure
* **Faceted taxonomies** layered in for:
  + Functional roles
  + Deployment models
  + Supported protocols
  + Industry use cases

That way, users can navigate the hierarchy or filter/search based on context.

Tridium

├── Niagara Platform

│ ├── Niagara Framework

│ │ ├── Core Services

│ │ ├── Niagara Analytics

│ │ └── Niagara Drivers

│ ├── Niagara Supervisor

│ └── Niagara Cloud Suite

├── Controllers

│ ├── JACE Series

│ │ ├── JACE-8000

│ │ ├── JACE-9000

│ └── Niagara Edge 10

├── Security Solutions

│ └── Niagara Enterprise Security