



From Data Silos to Data Value

The ECLASS-Driven Material Master Transformation

Building a Scalable, Corporate-Wide Single Source of Truth for Operational Excellence

Cologne, 24. September 2025

Independent global active experts in corporate-wide Material, Asset and Business Partner Master Data Management

PARADiNE

Let your Master Data become a valuable Company Asset!

Vienna (Headquarter) Offices RO, UA, CN (Partner)



230+ customers

100+ employees



- **Consulting Services**

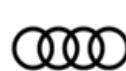
Implementation of corporate-wide, multilingual Material, Asset and Business Partner Master Data Management, Master Data Governance, Digital Twin, Industry 4.0

- **Master Data Services**

- Classification and Mapping Services
- Master Data Cleansing and Data Enrichment
- Deduplication and Consolidation

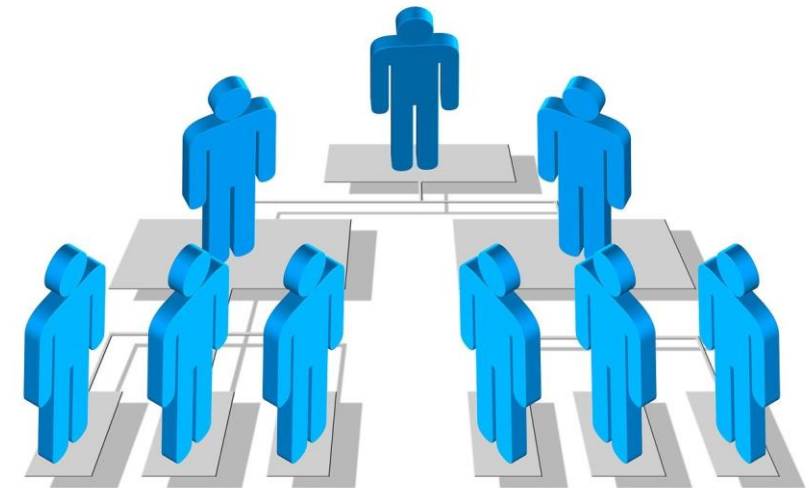
- **Software Solutions**

- eptos™ Master Data Management Solution
- ECLASS® Reference Application
- eCatCreator™ and ECLASS®-API



Manage digitalization of corporate wide consistent and reliable Master Data in the areas of:

- Product Development
- Engineering
- Asset Management
- Material Management
- Material Groups
- Procurement, Business Partners
- Sustainability (RoHS, REACH, Carbon Footprint, etc.)
- AAS, DPP, Digital Twin, Industry 4.0, ...



Today's Market Requirements

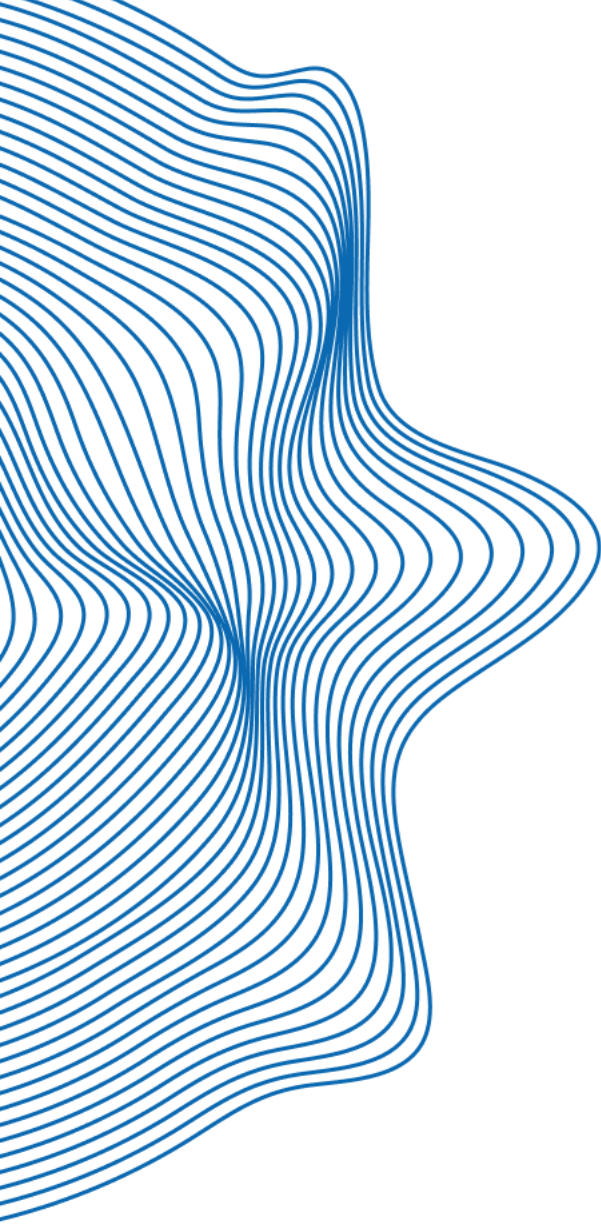
- Product and Material Master Data
- Digital Twins of all kind
- Material Declaration (REACH, RoHS, ...)
- Sustainability Information (Carbon Footprint, ...)
- Asset Administration Shell (AAS)
- Digital Product Passport (DPP)
- Digital Nameplate (IEC 63365)
- Digital Technical Documentation (VDI 2700)
- Identification Link – (IEC 61406 CD)



Quelle Bild: KSB



Quelle Bild: Krohne



PARADiNE & CLASS

A long lasting successful partnership



OFFICE AUSTRIA, SOUTH- AND EAST-EUROPE



preferred partner platinum

■ ECLASS Office

Paradine is official ECLASS office for Austria, Southern and Eastern Europe

■ Implementation of ECLASS

We support you in the implementation of ECLASS and offer software solutions for the provision of ECLASS-based data throughout the company

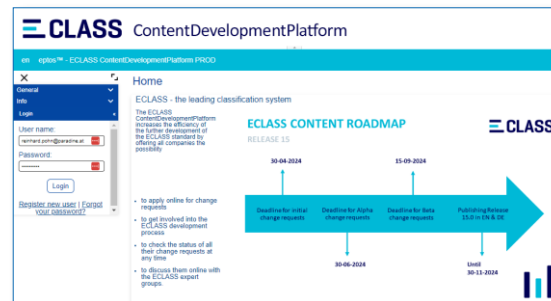


■ Consulting & Training

We offer a wide range of consulting and training services for ECLASS (webinars, seminars, workshops, ...).

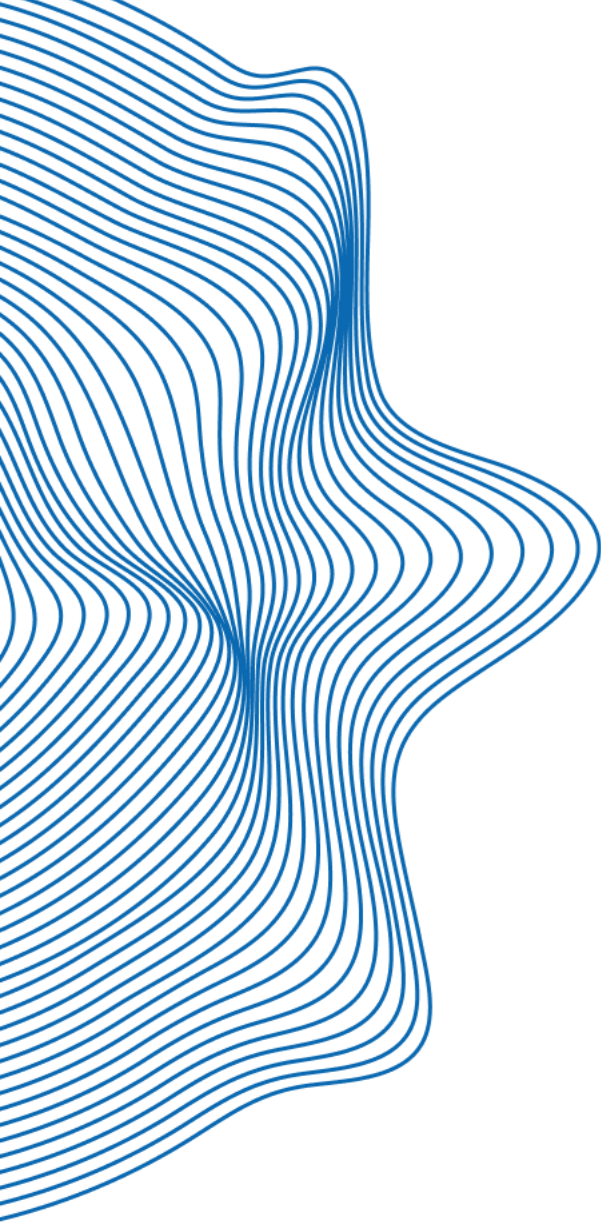
■ ECLASS Certified PLATINUM

Paradine is a long-time consultant and developer of the ECLASS Content Development Platform as well as ECLASS partner in the highest level Platinum



www.eclass-cdp.com
a Paradine eptos™ Implementation





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From Data Silos to Data Value

The ECLASS-Driven Material Master Transformation

Building a Scalable, Corporate-Wide Single Source of Truth for Operational Excellence

- What are companies today suffering with their existing data silos?
- Build up a Corporate Single Source of Truth for Material, Asset and Business Partner master data
- Using ECLASS to increase and keep material master data quality high over time
- How material master data is provided to all consuming systems
- Benefits to achieve

What are companies today suffering with their existing data silos?

- **Strategic Blind Spots**
 - Data silos severely limit an organization's strategic capabilities and decision-making.
- **Inaccurate Spend Analysis**
 - Without a unified view of procurement data, companies cannot accurately analyze their total spend, identify cost-saving opportunities, or negotiate better terms with suppliers. Source: Deloitte, 2023
- **Poor Inventory Visibility**
 - Disconnected inventory systems lead to an incomplete picture of stock levels, resulting in either overstocking (tying up capital) or stock-outs (disrupting production and customer satisfaction. Source: Oracle, 2022
- **Compromised Compliance**
 - Fragmented data makes it challenging to ensure adherence to regulatory requirements and internal policies. Inconsistent data can lead to difficulties in auditing, increased risk of non-compliance, and potential penalties. Source: PwC, 2023
- **Hindered Analytics**
 - Data silos prevent the aggregation of comprehensive datasets required for advanced analytics, artificial intelligence, and machine learning. This limits the ability to gain deep insights, predict trends, and drive innovation. Source: Microsoft, 2024

These limitations create "blind spots" in your strategic decision-making capabilities, preventing organizations from realizing their full potential.

Typical Software Applications (Data Silos) for Products/Material and Business Partners

Engineering Tools
(CAD, CAE, ...)



PLM



Sales Application



SRM



PIM



**Catalog
Purchasing**



ERP



Web-Shop



Challenges Companies facing today

- Many software applications in use
- Data quality is poor and not consistent
- Duplicate Materials and Business Partners
- No reliable electronic data exchange within the organization as well as with Suppliers and Customers
- No transparency and difficult bundling of demands
- Increasing data requirement from legislation and markets (e.g. Sustainability, DPP, etc.)

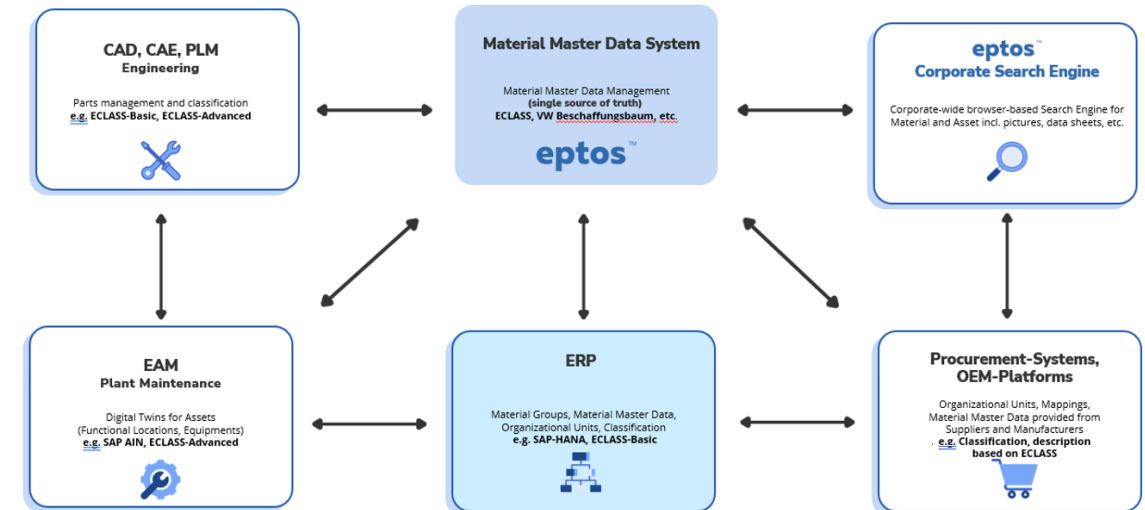
What do we want to achieve?

- Corporate-wide consistent Categorization/Classification
- Reliable and aligned Product and Material description
- Structured Mappings to Material Groups as well as other Classification Standards if required
- Clear Data Ownership and Data Governance
- Elimination of redundant data capturing and data maintenance
- Identification, elimination and avoidance of duplicated material and business partner

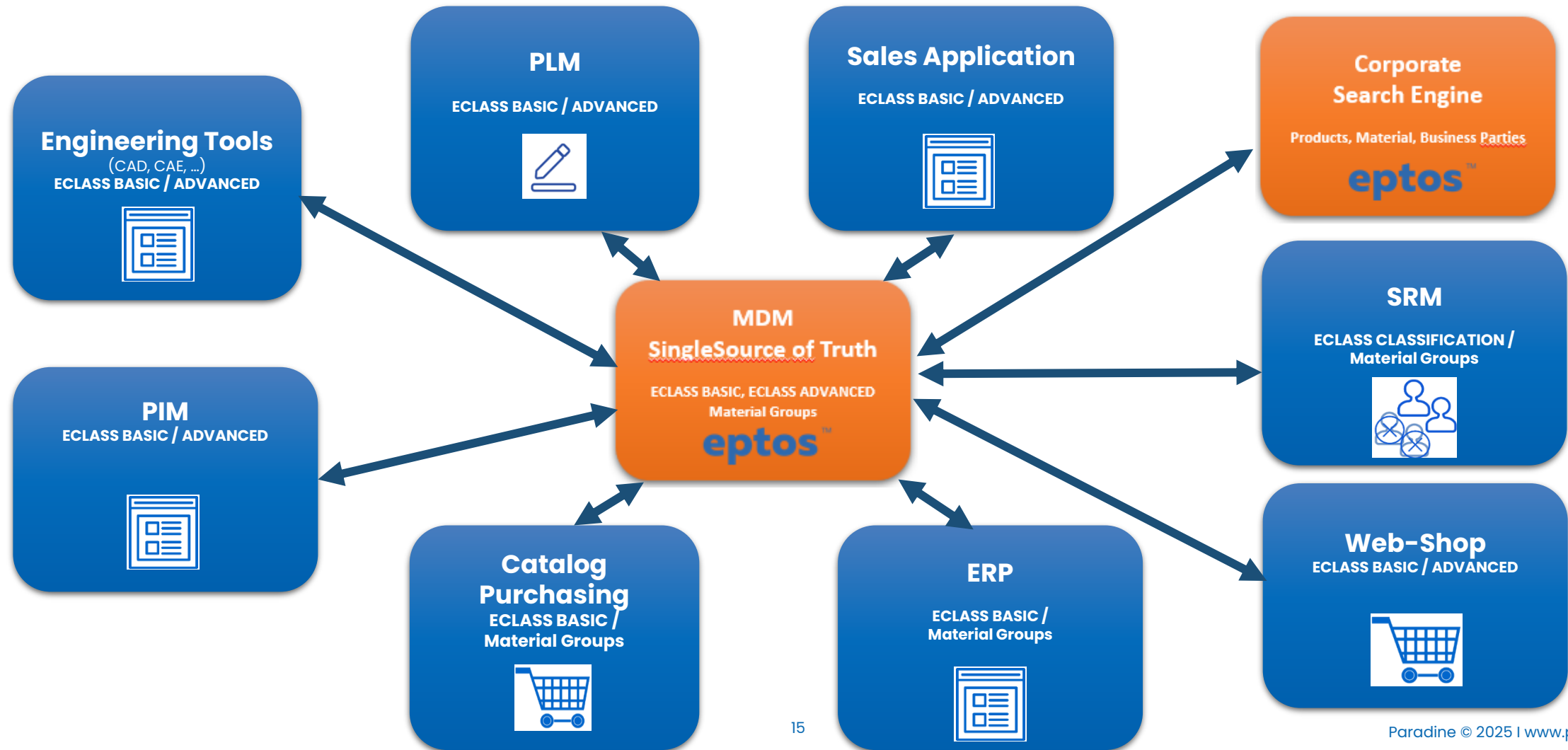
Build up a Corporate Singles Source of Truth for Material and Business Partner master data

- **Clear Data Ownership** Assign responsibility for data creation, maintenance, and quality to specific individuals or departments.
 - Establishes accountability
 - Ensures data accuracy
 - Promotes consistency
- **Defined Governance Policies** Establish comprehensive policies for data definition, quality, security, and lifecycle management.
 - Standardizes definitions
 - Enforces quality controls
 - Manages data lifecycle
- **Central MDM Platform** Implement a robust platform as the central repository and management system for all master data.
 - Facilitates consolidation
 - Enables data cleansing
 - Supports data distribution

- Single Source of Truth for Master Data across the enterprise
- Product, Material, Asset and Business Partner Master Data Management
- Cloud Based Managed Service
- Dictionary Management
- Classification / Mapping Management
- Full support of ECLASS BASIC/ADVANCED
- Template Management
- Workflows, Release Management
- Document Management
- Data Synchronization across the Enterprise



Implementing a Single Source of Truth



Technologies for distributing master data based on system needs.

- **APIs**
 - **RESTful:** Flexible, stateless for real-time access
 - **SOAP:** Structured data exchanges
- **Data Replication**
 - **Batch:** Scheduled intervals
 - **Incremental:** Only changes
- **Event-Driven Messaging**
 - **Kafka, RabbitMQ, Tibco:** Asynchronous communication
 - Real-time updates with decoupling
- **File-Based Transfers**
 - CSV, XML via SFTP

ECLASS provides a standardized framework for material master data management.

- **Hierarchical Classification**

- ECLASS organizes materials into a multi-level hierarchy, enabling precise categorization.

- **Standardized Properties**

- Each ECLASS class has defined properties and values, ensuring consistent descriptions.

- **Unique Identifiers**

- Every ECLASS class has a unique ID, facilitating machine-to-machine communication.








- **ECLASS-Driven Standardization**

- Creates a common language for material data
- Enables automated validation of data
- Facilitates data exchange between systems
- Improves data consistency and quality



Business Partner Management

- Corporate Wide Business Partner Management
- Suppliers, Manufacturers, Machine Manufactures, Contractors, etc.
- Synced BP with your Corporate applications (ERP, PLM, Catalog Procurement, etc.)
- Transparency through Rating and Grading
- De-duplication and avoidance of new Duplicates of BP
- Supports strategic Planning by BP linked to all Materials

#	Bild	Grading	Rating	Name	Name2
1		●	★★★★☆	ABB	ABB Automation Products GmbH
2		●	★★★★☆	Aventics	
3		●	★★★★☆	Balluff	Balluff GmbH
4		●	★★★★☆	Bosch Rexroth	Bosch Rexroth AG
5		●	★★★★☆	Eisenmann	Eisenmann GmbH
6		●	★☆☆☆☆	* Producer - Siemens - Class Table (10)	
7		●	★☆☆☆☆	Class Code ↑	Class Name
					Items
				27-02-26-02	Servo synchronous motor 19
				27-02-26-90	Servo motor (unspecified) 7
				27-04-03-01	Switching power supply 17
				27-04-07-01	Continuous current supply 43
				27-32-02-01	Graphic panel (HMI) 56
				27-37-10-01	Contact relay 87
				27-37-10-03	Power contactor, AC switching 283
				27-37-10-13	Overvoltage limiter 39
				27-37-13-02	Auxiliary switch block 168
				27-37-18-19	Device for monitoring of safety-related circuits 65

eptos™ Search Engine



- Corporate wide Full Text Search Engine for Product, Material and Business Partner
- Browser based, no local installation
- Easy cross-site „Finding“ of existing materials
- Auto-Completer
- Pre-define Facets for quick access
- Use Pictures and Documents for easy selection
- Define preferred parts for strategic parts
- Customer specific attributes possible

The screenshot displays the eptos Search Engine interface. At the top, it shows the search engine name and a search bar with the query 'phoenix'. Below the search bar, there are filters for 'English (United States)' and 'Item'. The main results area shows a table with columns for 'Main Data', 'Classification', 'Manufacturer', and 'Technical Properties'. The table lists various electrical components like 'Contact Insert', 'Coupling Relay', and 'Current Transducers'. To the left of the table, there are filters for 'Article Name', 'Class', 'Manufacturer name', and 'Supplier name'. Below the table, there are several product detail cards for different manufacturers, including Phoenix, Siemens, and ABB. These cards show product images, descriptions, and technical specifications. The interface is clean and professional, with a clear layout for searching and viewing product details.

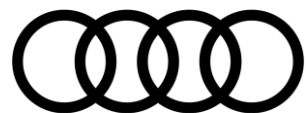
The ECLASS-driven material master transformation delivers tangible business value across operational and strategic dimensions.

- **Operational Excellence**
 - Streamlined processes
 - Eliminated data redundancy and increased data quality
- **Cost Reduction**
 - Transparency and lower error rates
 - Optimized inventory
- **Strategic Enablement**
 - Accurate spend analysis
 - Enhanced decision-making

This transformation directly translates into tangible business value, enhancing both day-to-day operations and long-term strategic capabilities.

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PARADiNE

Paradine GmbH

Technologiestrasse 5
1120 Vienna
Austria

T +43-1-236 66 68 - 0

W www.paradine.at

E info@paradine.at

