

EET Shopify Sync Application

A Node.js application that automatically syncs products from EET pricing files to Shopify stores. The application filters products based on configurable rules and handles product creation, updates, and inventory management.

Features

- **CSV Product Parsing:** Reads EET pricing files with semicolon delimiters
- **Smart Filtering:** Configurable include/exclude rules for brands and SKUs
- **Shopify Integration:** Full GraphQL API integration for product management
- **Product Mapping:** Converts EET product data to Shopify format
- **Inventory Sync:** Updates prices and stock quantities
- **Draft Management:** Makes orphaned products draft automatically
- **Scheduled Execution:** Runs every 12 hours or on-demand
- **Comprehensive Logging:** Detailed logs with timestamps and rotation
- **EET API Integration:** Real-time price and stock updates

Prerequisites

- Node.js 18+
- Shopify store with Admin API access
- EET API credentials (for price/stock updates)
- EET pricing file (`eet_prices.txt`)

Installation

1. Clone the repository

```
git clone <repository-url>
cd eet-shopify
```

2. Install dependencies

```
npm install
```

3. Set up environment variables

Create a `.env` file in the root directory:

```
# Environment Configuration
PRODUCTION=development
LANGUAGE=DNK
```

```
EET_PRICE=eet_prices.txt

# Shopify Configuration (Development)
SHOPIFY_TEST_STORE_ADMIN_URL=fetch-products-from-eet.myshopify.com
SHOPIFY_TEST_STORE_ADMIN_API=shpat_your_access_token_here

# Shopify Configuration (Production)
SHOPIFY_PRODUCTION_STORE_ADMIN_URL=your-store.myshopify.com
SHOPIFY_PRODUCTION_STORE_ADMIN_API=shpat_your_production_token_here

# Scheduler Configuration
SCHEDULED_MODE=false

# Logging Configuration
LOGGING=true
```

4. Place your EET pricing file

- Name it `eet_prices.txt` (or update `EET_PRICE` in `.env`)
- Ensure it's in the root directory

Usage

Single Run Mode (Default)

```
npm start
```

Scheduled Mode (Every 12 Hours)

```
npm run start:scheduled
```

Configuration

Product Filtering

The application uses `config/product-filter.json` to define which products to sync:

```
{
  "include": {
    "brand": [
      "Axis",
      "Hikvision",
      "Sony"
    ],
    "sku": [
```

```

        "PRODPAM10",
        "SPECIAL001"
    ]
},
"exclude": {
    "brand": [
        "Samsung",
        "LG"
    ],
    "sku": [
        "Laptops",
        "Smartphones"
    ]
},
"include_products_limit": 50
}

```

Filter Rules

Include Rules (OR logic):

- If a product matches ANY brand in `include.brand` OR ANY SKU in `include.sku`, it will be included
- If both `include.brand` and `include.sku` are empty, all products are considered for inclusion

Exclude Rules (AND logic):

- If a product matches a brand in `exclude.brand` AND a SKU in `exclude.sku`, it will be excluded
- Products matching only one exclude criteria will still be included

Product Limit:

- `include_products_limit`: Maximum number of products to process (0 = no limit)

Example Filter Scenarios

Scenario 1: Include only specific brands

```

{
  "include": {
    "brand": ["Axis", "Hikvision"]
  },
  "exclude": {},
  "include_products_limit": 100
}

```

Result: Only products from Axis or Hikvision brands, up to 100 products.

Scenario 2: Exclude specific products

```
{
  "include": {},
  "exclude": {
    "sku": ["Laptops", "Phones"]
  },
  "include_products_limit": 0
}
```

Result: All products except those with SKUs "Laptops" or "Phones".

Scenario 3: Complex filtering

```
{
  "include": {
    "brand": ["Axis", "Hikvision"]
  },
  "exclude": {
    "sku": ["OLD001", "TEST002"]
  },
  "include_products_limit": 50
}
```

Result: Axis or Hikvision products, excluding specific SKUs, limited to 50 products.

EET Pricing File Format

The application expects a CSV file with semicolon (;) delimiters. Required columns:

Column	Description	Example
Varenr.	Product SKU	PROD001
Beskrivelse	Product title	Security Camera
Pris	Price	1250.50
Lagerbeholdning	Stock quantity	25
Mærke Navn	Brand name	Axis
Web Category Name	Category	Security
Web Picture URL	Image URL	https://...
Beskrivelse 2	Description 2	Additional info
Beskrivelse 3	Description 3	More details
EAN/UPC	Barcode	1234567890123
Bruttovægt	Weight (kg)	1.5

Column	Description	Example
Manufacturer Part No	MPN	MPN123456

Application Flow

1. **Load Configuration:** Reads environment variables and filter config
2. **Fetch Shopify Products:** Gets all existing products from Shopify
3. **Parse EET File:** Reads and parses the EET pricing CSV
4. **Apply Filters:** Filters products based on configuration rules
5. **Map Products:** Converts EET format to Shopify product format
6. **Compare Products:** Identifies new, existing, and orphaned products
7. **Create Products:** Uploads new products to Shopify
8. **Update Prices:** Updates prices from EET API
9. **Update Inventory:** Updates stock quantities
10. **Manage Drafts:** Makes orphaned products draft
11. **Log Results:** Records all operations with timestamps

Logging

Log Files

- **Location:** `logs/` directory
- **Format:** `eet-shopify-YYYY-MM-DD-HH-MM-SS.log`
- **Rotation:** Daily at 00:00
- **Retention:** Configurable (default: 30 days)

Log Levels

- **INFO:** General application flow
- **DEBUG:** Detailed operation information
- **ERROR:** Error conditions and failures
- **WARN:** Warning conditions

Sample Log Entry

```
[2024-01-15T10:30:45.123Z] [INFO] [SHOPIFY] Product created successfully
{
  "productId": "gid://shopify/Product/123456789",
  "title": "Security Camera",
  "sku": "PROD001",
  "vendor": "Axis"
}
```

Error Handling

The application includes comprehensive error handling:

- **Network Errors:** Retries and graceful degradation
- **API Rate Limits:** Automatic delays between requests
- **Validation Errors:** Detailed error messages
- **File System Errors:** Proper error logging and recovery
- **GraphQL Errors:** Parsed and logged error details

Troubleshooting

Common Issues

1. "Cannot find package" errors

```
npm install
```

2. "Missing Shopify configuration" error

- Check your `.env` file
- Verify `SHOPIFY_TEST_STORE_ADMIN_URL` and `SHOPIFY_TEST_STORE_ADMIN_API`

3. "EET pricing file not found"

- Ensure `eet_prices.txt` exists in root directory
- Check `EET_PRICE` environment variable

4. "GraphQL errors"

- Verify Shopify API token permissions
- Check API version compatibility
- Review rate limiting

5. Filter not working as expected

- Check `config/product-filter.json` syntax
- Verify column names match EET file headers
- Test with `include_products_limit: 1` for debugging

Debug Mode

Enable detailed logging:

```
LOGGING=true
```

Check logs in `logs/` directory for detailed operation information.

Project Structure

```
eet-shopify/
├── config/
│   └── product-filter.json      # Filter configuration
├── logs/                       # Log files directory
├── module/
│   ├── csvParseAndFilter.js    # CSV parsing and filtering
│   ├── logger.js              # Logging system
│   ├── shopify.js              # Shopify API client
│   └── eet.js                  # EET API client
├── tmp_data/
│   └── filtered-products.json  # Filtered products output
├── .env                        # Environment variables
├── eet_prices.txt              # EET pricing file
├── index.js                    # Main application
├── package.json                # Dependencies and scripts
└── README.md                  # This file
```

Contributing

1. Fork the repository
2. Create a feature branch
3. Make your changes
4. Test thoroughly
5. Submit a pull request

License

ISC License - see LICENSE file for details.

Support

For issues and questions:

1. Check the troubleshooting section
2. Review log files for error details
3. Create an issue with:
 - Error messages
 - Log file excerpts
 - Configuration details
 - Steps to reproduce

Happy Syncing! 🛒 ✨