

Munich RE



# SHIELD

Features' List



Start-to-finish  
features & capabilities  
to manage your  
business

# SHIELD comes equipped with an extensive feature list to help you manage fraud, waste and abuse

## Features



### Deterministic Medical Rule Engine

The deterministic medical rule engine checks the data on medical invoices against the following rules to justify the decision to accept or reject the claim or authorization:

- / Diagnosis rules
- / Procedure rules
- / Gender rules
- / Age rules
- / Admission rules
- / Length of stay rules
- / Drug rules
- / Upcoding rules
- / Unbundling rules
- / Permanent exclusion rules
- / Repeated procedure (historical) rules

### Deterministic Outlier Rule Engine

The deterministic outlier rule engine identifies invoice amounts that are below or above set thresholds to justify the decision to accept or reject the claim or authorization:

- / Diagnosis amount
- / Procedure amount
- / Drug amount
- / Dental amount

## Features



### Supervised Machine Learning Model

SHIELD includes a supervised machine learning model that is used to pre-train algorithms to replicate human decisions about the acceptance or rejection of claims or authorizations:

- / The algorithm is trained by labeled datasets
- / The model uses a decision tree machine learning algorithm
- / Model monitoring detects model drift and data drift
- / Model re-training happens via feedback loop

### Unsupervised Machine Learning Model

The unsupervised machine learning model gathers claims or authorization data into similar groups to identify and score anomalies to support a decision to accept or reject the claim or authorization:

- / Clustering algorithm trained with unlabeled data
- / Cluster scoring and outlier scoring per invoice line
- / Configurable thresholds for decision making
- / Similar claim comparison

## Features



### REST API

REST API can be used to integrate with existing client's systems

### Additional General Features

- / Cloud-based solution
- / Needs minimum data to provide results (data found on an invoice or authorization)
- / Real-time detection
- / Integrated or standalone with simple upload mechanism

# SHIELD

## Up your business

Need more information?

[sales@mrhealthtech.com](mailto:sales@mrhealthtech.com)

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List