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## X12 Deenvelope Service

**Caution:** This is an internal service that should not be used externally for steps in creating business processes because it is subject to change without notice, and use may cause unpredictable results and loss of data. This section is intended for information purposes only.

The following table provides an overview of the X12 Deenvelope service:

System name	DeenvelopeX12Type
Graphical Process Modeler (GPM) categories	All Services, EDI > X12
Description	Handles deenveloping of inbound X12 interchanges. It does compliance checking (except for sequence checking). It also generates 997, 999, and TA1 acknowledgements, and reconciles inbound 997 and 999 acknowledgements, if no sequence checking is required.
Business usage	The business value of the service is to improve performance by deferring sequence checking (if required) so that database updates of control numbers can be done by the EDI Post Processing service.
Usage example	An inbound purchase order is received inside an X12 interchange. The EDI envelopes are parsed and the document envelopes that match the envelope data are retrieved. With the document envelopes, this service knows what to do with the purchase order, such as initiating a business process to perform some business logic.
Preconfigured?	Yes
Requires third party files?	No
Platform availability	All supported application platforms.
Related services	If sequence checking is required, this service works in conjunction with the EDI Post Processor service.
Application requirements	None

## Document Tracking Levels and Performance

You can boost EDI performance in the application by using the `TRACKING_LEVEL` parameter to adjust the tracking level for business processes.

You set the default global settings for the `TRACKING_LEVEL` parameter in the `enveloping.properties` file. However, these global settings can be overridden for certain EDI-related services by using the BPML-only `TRACKING_LEVEL` parameter. This enables you to obtain maximum EDI performance in some business processes and maximum search and tracking functionality in others. This parameter can be set for the following services:

### Inbound

- ◆ CII Deenvelope service

- ◆ EDIFACT Deenvelope service
- ◆ EDI Post Processor service
- ◆ X12 Deenvelope service
- ◆ Generic Deenvelope service

## Outbound

- ◆ EDI Encoder service
- ◆ CII Envelope service
- ◆ EDIFACT Envelope service
- ◆ Envelope Generic service
- ◆ X12 Envelope service

This performance boost is done at the expense of Tracking and Search functionality. The tracking level setting affects the following EDI functionality:

- ◆ EDI Correlation Search
- ◆ EDI Document Tracking
- ◆ EDI Reporting

The TRACKING\_LEVEL parameter is not available in the application service configuration or in the GPM. It must be added manually to the BPML. Use the TRACKING\_LEVEL parameter with one of the following settings:

Setting	Description
none	Provides the largest EDI performance boost with the least tracking and search functionality. EDI Correlation Search, EDI Document Tracking and EDI Reporting are nonfunctional.
basic	Provides an EDI performance boost while also providing search functionality. EDI Correlation Search is functional. EDI Document Tracking and EDI Reporting are nonfunctional.
full	Default setting. Provides the lowest EDI performance with the highest search and tracking functionality. EDI Correlation Search, EDI Document Tracking and EDI Reporting are fully functional.

**Note:** Document tracking is turned off by default in the system-defined EDI business processes. If you define an EDI business process and turn Document Tracking on, that will override the TRACKING\_LEVEL settings in both the enveloping.properties file and the EDI service parameter.

**Note:** All EDI services assign a Unique ID to each log message.

## Adding Translation Map Name to Process Data

The X12 Deenvelope service automatically adds the name of the map used by the translator (as specified when building the envelope) in an inbound or outbound translation to process data. The X12 Deenvelope service writes the map name into the process data regardless of the reason the translator was invoked; that

is, for a compliance check only, or for both compliance check and translation. The map name in process data enables enhanced configuration possibilities for your business process models. For example, you can configure business processes to use the map name for tracking or cross reference purposes, configure decisions in your process models to choose a subprocess according to the map that was run, or to create a report when there are translation errors.