

Message Specification

CUSTOMER

SAP Information Collaboration Hub for Life Sciences

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Message Specification for Russian Market

SAP Information Collaboration Hub for Life Sciences



Document History

Version	Date	Status	Change
1.0	24-Aug-18	Released to customer	Initial release
1.1	10-Oct-18	Released to customer	<ul style="list-style-type: none">• Replaced <objAttributes> tag with <evtAttributes> in <SAPEExtension>• Minor edits
1.2	16-Jan-2019	Released to customer	Removal of POC and forward-oriented statements
1.3	8-Mar-2019	Released to customer	Updates: <ul style="list-style-type: none">• Document renamed to include all business partner types – not 3PL only• EPCIS message structures based on available functionality in ATTP 2.0 FP03• Planned scenario for Crypto Codes integration in Serial Number Request

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The following sections describe a potential planned roadmap. SAP intends to execute on this roadmap according to the safe harbor statement below.

Safe Harbor Statement

Any statements contained in this document that are not historical facts are forward-looking statements as defined in the U.S. Private Securities Litigation Reform Act of 1995. Words such as "anticipate," "believe," "estimate," "expect," "forecast," "intend," "may," "plan," "project," "predict," "should" and "will" and similar expressions as they relate to SAP are intended to identify such forward-looking statements. SAP undertakes no obligation to publicly update or revise any forward-looking statements. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. The factors that could affect SAP's future financial results are discussed more fully in SAP's filings with the U.S. Securities and Exchange Commission ("SEC"), including SAP's most recent Annual Report on Form 20-F filed with the Securities and Exchange Commission. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates.

1 About this Document

1.1 Purpose and Scope

This document describes the standard structure of serialization event management (SEM) files used by business partners interacting on the SAP Information Collaboration Hub for Life Sciences in Russia, including:

- Market Authorization Holders (MAH)
- Third Party Logistics (3PL) service providers
- Contract Manufacturing Organization (CMO)
- Internal Production sites, L2 and L3

Note

To use the SAP Information Collaboration Hub for Life Sciences to interact with business partners in the Russian market, messages must comply to this message specification.

This document describes the current and planned message structure for exchanging serial numbers and SEMs including Russian market Crypto Codes.

1.2 Assumptions

- Knowledge of serialization data exchange in the Russian market

1.3 Target Audience

- Integration experts
- Implementation teams
- SAP ATTP Configuration experts and administrators


Related Information

- [SAP Information Collaboration Hub for Life Sciences Help Portal](#)
- SAP Information Collaboration Hub for Life Sciences [Onboarding Wiki](#)
- [SAP Advanced Track and Trace for Pharmaceuticals Help Page](#)

1.4 Glossary

Abbreviation	Definition
3PL	Third Party Logistics service provider
CMO	Contract Manufacturing Organization
EDMC	Electronic Drug Monitoring Code
EPC	Electronic Product Code, often used to summarize different formats of unique identifiers
EPCIS	Electronic Product Code Information Services - GS1 Standard, refer to http://www.gs1.org/epcis/epcis/1-1 . This specification is based on EPCIS 1.1
FDA	Food and Drug Administration
GCP	Global Company Prefix (GS1 Standard)
GLN	Global Location Number (GS1 Standard)
GS1	Global Standardization Body
GTIN	Global Trade Identification Number (GS1 Standard)
LIS	Russian state information system created for the purpose of information support of CIM labeling of products
MAH	Marketing Authorization Holder
NDC	National Drug Code
NHRN_DRN	National Healthcare Reimbursement Number (NHRN, product identifier used in Brazil)
NTIN	National Trade Item Number, special version of a GTIN where the company prefix depicts a country. Used to bring country specific numbering schemes into the GTIN format.
SGTIN	Serialized GTIN, special case of EPC
SSCC	Serial Shipping Container Code

1.5 Typographic Conventions

Type Style	Description
	This icon indicates that there is information in an MAH specific document. Certain processes or options vary and depend on the preference of the MAH.
<i>Example</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Textual cross-references to other documents.
Example	Emphasized words or expressions.

Type Style	Description
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE	Keys on the keyboard, for example, F2 or ENTER.

2 Introduction

The SAP Information Collaboration Hub for Life Sciences, known as the SAP Info Hub, is an innovative on-demand solution that connects pharmaceutical organizations and their supply chain partners on a secure network that is owned and managed by SAP. The SAP Info Hub supports the transfer and transformation of data between members of the pharmaceutical supply chain connected to the SAP Info Hub. Connected partners can exchange serialization messages across a secure and reliable network.

2.1 Business Scenarios

The SAP Information Collaboration Hub for Life Sciences allows for the exchange of data between various partners to send and receive Serial numbers, and Serialization Event Messages (SEMs) such as commissioning and decommissioning events.

2.2 Message Structure

This section outlines the message structure.

In the examples, variable fields are shown in the following colors:

- **Light blue** represents static data that are the same for all serial number requests and responses sent or received.
- **Yellow** represents data specific to an MAH.
- **Green** represents variable data that is different for each request, for example, requested amount of serial numbers.

2.3 EPCIS Data

Business partners transmit EPCIS-based serialized data to their supply chain partners in the form of messages. Information about a batch, such as manufacturing and expiration date is included in a message.

A message can include information about aggregation of commissioned items, that is, which unit is in which case, and which case is on which pallet as well as information about the shipment.

Messages can also provide information regarding decommissioning of serial numbers.

2.3.1 Header Information: Identifiers for Sender and Receiver

The EPCIS Standard Business Document Header is used for the Sender and Receiver Identifier to identify the sender and the receiver of a message.

2.3.2 Event Time

The event time (commissioning event time) is in the EPCIS message. The eventTime indicates when the object event happened. The eventTimeZoneOffset indicates that the event happened in a time zone with +01:00h time difference to UTC.

```
<ObjectEvent>
<eventTime>2016-08-11T16:44:23.3666130Z</eventTime>
<eventTimeZoneOffset>+01:00</eventTimeZoneOffset>
```

2.4 Russian Business Partners

Business partners operating in the Russian market provide Serialization Event Management information to partners, including information about:

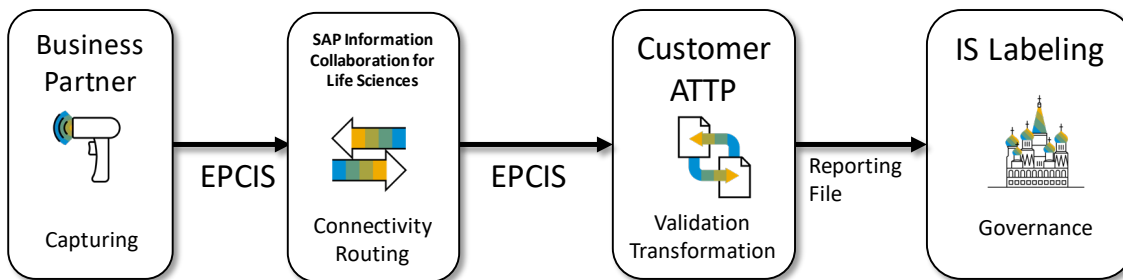
- Decommissioning
- Aggregation
- Sampling
- Observe object events with Russian specific values in the SAP Extension section of the message

The [GS1](#) message format allows for custom specific extensions to an event. SAP introduced its own extension section that is mandatory for automated event integration and to trigger reporting for the Russian market. See examples in section 3.2.

Based on this information a SAP customer can create the following reporting messages in SAP Advanced Track and Trace for Pharmaceuticals (ATTP) Version 2 FP2 automatically:

- 312-register_control_samples
- 911-unit_pack/914 unit_append
- 912-unit_unpack/913 unit_extract
- 915-multi_pack

The other outbound reporting messages that are in scope of ATTP can be triggered automatically with ATTP V2 FP3 EPCIS extension. After rules processing, Russian specific values are included in an EPCIS event.



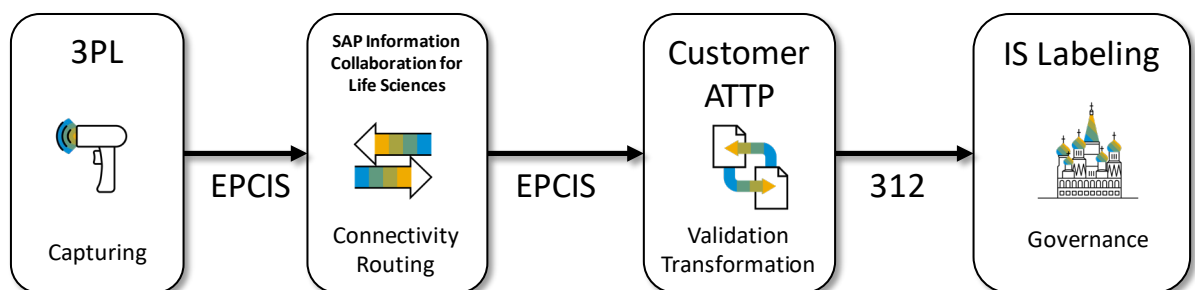
The business partner captures the event, adds the required information and provides the information through the SAP Information Collaboration Hub for Life Sciences to an ATTP system, or similar, which validates and transforms the event to a Russian market reporting message.

3 Available Scenarios

This section describes the scenarios supported by ATTP V2.0 FP3.

Specific messages require input from EPCIS events to trigger the corresponding reporting notification.

For example, in the case where a 3PL removes a unit for sampling before shipping, the 3PL must send a decommissioning message. The partner MAH expects the message to include serialization data for what is shipped. The following figure shows an Object Event with Action DELETE and <bizStep> decommissioning.



3.1 Aggregation and Deaggregation

This section describes requirements and options for aggregation and deaggregation messages.

3.1.1 EPCIS Body for Aggregation Events

In the EPCIS body, an event list can be defined for the following events:

- Object
- Aggregation
- Transaction

Multiple events with different event type can be listed in the EPCIS body of the same message.

Content from examples	Explanation	M/O/R
<code><AggregationEvent></code>	Represents an event to one or more objects that are physically aggregated together (physically constrained in the same place at the same time, as when cases are aggregated to a pallet). Aggregation reflects the packaging hierarchy of for example, units in bundles, bundles in cases and cases on a pallet.	M
<code><eventTime>2016-04-28T19:26:45Z</eventTime></code> <code><eventTimeZoneOffset>-06:00</eventTimeZoneOffset></code>	2016-04-28T19:26:45Z is the time when the event was created. -06:00 is the time difference with UTC	M
<code><parentID></code> urn:epc:id:sscc:9300055.0000000028 Or urn:epc:id:sgtin:0365250.026620.000000006731 or (01)10012345337007(21)000000002158 <code></parentID></code>	The parent ID depicts the parent unit into which the children are being packed. The parent can be an SSCC or a EPC. Both can be defined with the URN format or GS1-format using application identifiers for GTIN (01) and serial number (21) or SSCC (00) respectively.	M
<code><childEPCs></code> <code><epc>urn:epc:id:sgtin:0365250.026620.000000006731</epc></code> Or (01)10012345337007(21)000000002158	urn:epc:id:sgtin:0365250.026620.000000006731 represents the ID. ID can be with the GS1 application identifiers (01) and (21)	M

Content from examples	Explanation	M/O/R
<pre><epc>(01)10012345337007(21)00000002158</epc> </childEPCs></pre>	SAP Info Hub does not convert URN format to GS1, or GS1 to URN. Data transported remains the same.	
<pre><action>ADD</action></pre>	Action type: describes how an event relates to the lifecycle of the entity described <ul style="list-style-type: none"> For packing, it is always ADD 	M
<pre><bizStep>urn:epcglobal:cbv:bizstep:packing</bizStep></pre>	Business Step: identifies what was taking place from a business perspective at the time of the event. <ul style="list-style-type: none"> For packaging, for example, for an aggregation event ADD use packing. 	M
<pre><readPoint> <id>urn:epc:id:sgln:0353755.00000.0</id> </readPoint></pre>	The Read Point is the location where the event took place, for example, the SGLN.	M
<pre><bizLocation> <id>urn:epc:id:sgln:0353755.00000.0</id> </bizLocation></pre>	The business Location is the location where the object now resides until a subsequent event takes place, for example a manufacturing site SGLN.	M

3.1.2 EPCIS Deaggregation/UnpackEvent

Content from examples	Explanation	M/O/R
<pre><AggregationEvent></pre>	Represents an event to one or more objects that are physically aggregated together, that is, physically constrained in the same place at the same time, as when cases are aggregated to a pallet. Aggregation reflects the packaging hierarchy of, for example, units in bundles, bundles in cases, and cases on a pallet.	M
<pre><eventTime>2016-04-28T19:26:45Z</eventTime> <eventTimeZoneOffset>-06:00</eventTimeZoneOffset></pre>	2016-04-28T19:26:45Z is the time when the event was created. -06:00 is the time difference with UTC	M
<pre><parentID> urn:epc:id:sscc:9300055.0000000028</pre>	The parent ID depicts the parent unit into which the children are packed. The parent can be an SSCC or an EPC. Both can be defined with the URN format or GS1-format using application	M

Content from examples	Explanation	M/O/R
Or <pre>urn:epc:id:sgtin:0365250.026620.000000006731</pre> or <pre>(01)10012345337007(21)000000002158</pre> </parentID>	identifiers for GTIN (01) and serial number (21) or SSCC (00) respectively.	
<pre><childEPCs> <epc>urn:epc:id:sgtin:0365250.026620.000000006731</epc> Or <epc>(01)10012345337007(21)000000002158</epc> </childEPCs></pre>	<pre>urn:epc:id:sgtin:0365250.026620.000000006731</pre> represents the ID. ID can be the GS1 application identifiers (01) and (21) <pre>(01)10012345337007(21)000000002158</pre> . SAP Info Hub does not convert URN format to GS1, or GS1 to URN. Data transported remains the same.	M
<pre><action>DELETE</action></pre>	Action type: describes how an event relates to the lifecycle of the entity described <ul style="list-style-type: none"> For unpacking, it is always DELETE 	M
<pre><bizStep>urn:epcglobal:cbv:bizstep:unpacking</bizStep></pre>	Business Step: identifies what was taking place from a business perspective at the time of the event. <ul style="list-style-type: none"> For unpacking, for example, an aggregation event DELETE use unpacking 	M
<pre><readPoint> <id>urn:epc:id:sgln:0353755.00000.0</id> </readPoint></pre>	The Read Point is the location where the event took place, for example, the SGLN.	M
<pre><bizLocation> <id>urn:epc:id:sgln:0353755.00000.0</id> </bizLocation></pre>	The business Location is the location where the object now resides until a subsequent event takes place, for example a manufacturing site SGLN.	M

3.2 Object Event Action <observe>

This section describes scenarios available in SAP ATTP 2.0 FP 03 based on the Draft message specification released by the Russian Government in February 2019, that is, **v.1.26**.

When the interface for the government system changes, the Russian Government specification may change, and therefore Business Partners may need to change the content of the SAP Extension section of messages.

The section describes the inbound ATTP interface that allows customers to automatically generate outbound reporting messages to the government system without manual intervention.

In early stages, if certain values are not provided, manual intervention may be required using the SAP extension. If a business partner does not supply all the required information, an ATTP customer can manually add missing values in the relevant screen in ATTP. Refer to [ATTP Help](#).

Currently, there is no industry alignment regarding Russian market documents, types and sources, used in business operations and which must be reported.

Documents are transported using the SAP Extension section of an EPCIS message. The document type is not mandatory. This is the case for communication between two business partners using bizTransactionList.

3.2.1 312 Register Control Samples

This section outlines requirements and options for an EPCIS message with action <observe> to trigger *312-register_control_samples*.

Because it has only one parameter, you can trigger the event automatically, using the default value, or you can provide the attribute and dynamically generate the corresponding reporting event.

If you use the SAP Extension, you can do both automatically.

SAP recommends using the SAP Extension for the value in the EPCIS event to trigger outbound 312.

EPCIS Observe Event

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<code><ObjectEvent></code>	ObjectEvent: represents an event on one or more physical or digital objects. For commissioning and decommissioning of serialization items, Item level is always <code>ObjectEvent</code>	M
<code><eventTime>2016-04-28T19:26:45Z</eventTime></code> <code><eventTimeZoneOffset>-06:00</eventTimeZoneOffset></code>	EventTime: 2016-04-28T19:26:45Z is the time when the event was created. -06:00 is the time difference with UTC	M
<code><epcList></code> <code><epc>urn:epc:id:sgtin:0365250.026620.000000006731</epc></code> Or <code><epc>(01)10012345337007(21)000000002158</epc></code> <code></epcList></code>	Unique Identifier: URN format or GS1 element string format can be used GS1-format using application identifiers for GTIN (01) and serial number (21) can be used	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<code><action>OBSERVE</action></code>	<p>Action type: how an event relates to the lifecycle of the entity described</p> <ul style="list-style-type: none"> For decommissioning event: always DELETE For object events where additional events will follow: OBSERVE 	M
<code><bizStep>urn:epcglobal:cbv:bizstep:inspecting</bizStep></code>	<p>Business Step: identifies what was taking place from a business perspective at the time of the event.</p> <ul style="list-style-type: none"> For decommissioning event, bizstep is always decommissioning For object event Observe, the bizstep can be defined according to the business trigger, such as inspecting, arriving, accepting 	M
<code><disposition>urn:epcglobal:cbv:disp:active</disposition></code>	<p>Disposition: identifies the business condition subsequent to the event of the physical or digital objects named.</p> <ul style="list-style-type: none"> For decommissioning event, disposition is always inactive <p>http://www.gs1.org/sites/default/files/docs/epc/cbv_1_1-standard-20140520.pdf</p> <ul style="list-style-type: none"> For object event Observe, the disposition is: active 	M
<code><readPoint></code> <code><id>urn:epc:id:sgln:0353755.00000.0</id></code> <code></readPoint></code>	<p>The Read Point is the location where the event took place, for example, the SGLN.</p>	M
<code><bizLocation></code> <code><id>urn:epc:id:sgln:0353755.00000.0</id></code> <code></bizLocation></code>	<p>The Business Location is the location where the object(s) is now considered to reside until a subsequent event takes place, for example, a manufacturing site SGLN.</p>	M
<code><SAPExtension></code> <code><evtAttributes></code> <code><RR_RU_CTR_SMPL_TYPE>1</RR_RU_CTR_SMPL_TYPE></code> <code></evtAttributes></code> <code></SAPExtension></code>	<p>Each Object Event must have only one SAPExtension Segment</p> <p>In the SAP Extension, CTR_SMPL_TYPE must be in the format specified by Russian regulations (https://www.nalog.ru/rn77/taxation/labeling/med/).</p>	O

i Note

The CONTROL_SAMPLES_TYPE can be maintained in ATTP as a fixed value. Integration of this code and automated processing in ATTP is available with ATTP V2 FP3.

3.2.2 332 Foreign Import

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<code><ObjectEvent></code>	ObjectEvent: represents an event on one or more physical or digital objects. For commissioning and decommissioning of serialization items (Item level) is always ObjectEvent	M
<code><eventTime>2016-04-28T19:26:45Z</eventTime></code> <code><eventTimeZoneOffset>-06:00</eventTimeZoneOffset></code>	EventTime: 2016-04-28T19:26:45Z is the time when the event was created. -06:00 is the time difference with UTC	M
<code><epcList></code> <code><epc>urn:epc:id:sgtin:0365250.026620.000000006731</epc></code> Or <code><epc>(01)10012345337007(21)000000002158</epc></code> <code></epcList></code>	Unique Identifier: URN format or GS1 element string format can be used GS1-format using application identifiers for GTIN (01) and serial number (21) can be used	M
<code><action>OBSERVE</action></code>	Action type: says how an event relates to the lifecycle of the entity being described <ul style="list-style-type: none"> For object events where additional events will follow: OBSERVE 	M
<code><bizStep>urn:epcglobal:cbv:bizstep:arriving</bizStep></code>	Business Step: identifies what was taking place from a business perspective at the time of the event. For object events Observe, the bizstep can be defined according to the business trigger, such as inspecting, arriving, accepting.	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre><disposition>urn:epcglobal:cbv:disp:active< /disposition></pre>	<p>Disposition: identifies the business condition subsequent to the event of the physical or digital objects named.</p> <ul style="list-style-type: none"> For object event, Observe the disposition is: active. 	M
<pre><readPoint> <id>urn:epc:id:sgln:0353755.00000.0</id> </readPoint></pre>	<p>The Read Point is the location where the event took place, for example, the SGLN.</p>	M
<pre><bizLocation> <id>urn:epc:id:sgln:0353755.00000.0</id> </bizLocation></pre>	<p>The Business Location is the location where the object(s) is now considered to reside until a subsequent event takes place, for example, a manufacturing site SGLN.</p>	M
<pre><SAPExtension> <evtAttributes> <RR_RU_SELLER_ID>19406412-0001-000a- 0000-000000000022</RR_RU_SELLER_ID> <RR_RU_DOC_NUM>235A/06/2017</RR_RU_DOC_NUM> <RR_RU_DOC_DATE>30.10.2000</RR_RU_DOC_DATE> </evtAttributes> </SAPExtension></pre>	<p>Each Object Event must have only one SAPExtension Segment</p> <p>In the SAP Extension:</p> <ul style="list-style-type: none"> SELLER_ID identifies the selling entity DOC_NUM describes the document for the business process. DOC_DATE date of document creation 	O

3.2.3 335 FTS Data

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<code><ObjectEvent></code>	ObjectEvent: represents an event on one or more physical or digital objects. For commissioning and decommissioning of serialization items, Item level is always ObjectEvent	M
<code><eventTime>2016-04-28T19:26:45Z</eventTime></code> <code><eventTimeZoneOffset>-06:00</eventTimeZoneOffset></code>	EventTime: 2016-04-28T19:26:45Z is the time when the event was created. -06:00 is the time difference with UTC	M
<code><epcList></code> <code><epc>urn:epc:id:sgtin:0365250.026620.000000006731</epc></code> Or <code><epc>(01)10012345337007(21)000000002158</epc></code> <code></epcList></code>	Unique Identifier: URN format or GS1 element string format can be used GS1-format using application identifiers for GTIN (01) and serial number (21) can be used	M
<code><action>OBSERVE</action></code>	Action type: how an event relates to the lifecycle of the entity described <ul style="list-style-type: none"> For object events where additional events will follow: OBSERVE 	M
<code><bizStep>urn:epcglobal:cbv:bizstep:entering_exiting</bizStep></code>	Business Step: identifies what was taking place from a business perspective at the time of the event. For object event Observe, the bizstep can be defined according to the business trigger, such as receiving, loading, storing, entering_exiting, transforming.	M
<code><disposition>urn:epcglobal:cbv:disp:active</disposition></code>	Disposition: identifies the business condition subsequent to the event of the physical or digital objects named. <ul style="list-style-type: none"> For object event Observe, the disposition is: active. 	M
<code><readPoint></code> <code><id>urn:epc:id:sgln:0353755.00000.0</id></code> <code></readPoint></code>	The Read Point is the location where the event took place, for example, the SGLN.	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre><bizLocation> <id>urn:epc:id:sgln:0353755.00000.0</id> </bizLocation></pre>	<p>The Business Location is the location where the object(s) is now considered to reside until a subsequent event takes place, for example, a manufacturing site SGLN.</p>	M
<pre><SAPExtension> <evtAttributes> <RR_RU_CONFIRM_DOC>1</RR_RU_CONFIRM_DOC> <RR_RU_DOC_NUM>235A/06/2017</RR_RU_DOC_NUM> <RR_RU_DOC_DATE>30.10.2000</RR_RU_DOC_DATE> <RR_RU_CUSTOMS_CODE>10005022</RR_RU_CUSTOMS_CODE> <RR_RU_CUSTOMS_VALUE>15</RR_RU_CUSTOMS_VALUE> </evtAttributes> </SAPExtension></pre>	<p>Each Object Event must have only one SAPExtension Segment</p> <p>In SAP Extension:</p> <ul style="list-style-type: none"> • CONFIRM_DOC defines the type of importing procedure. • DOC_NUM describes the document for the business process. • DOC_DATE date of document creation • CUSTOMS_CODE identifies customs agent • REG_DATE date of legitimization by customs agent • GTD_NUMBER • CUST_PRCD_CODE describes release process • CUSTOMS_VALUE 	O

3.2.4 341 Receive Importer

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<code><ObjectEvent></code>	ObjectEvent: represents an event on one or more physical or digital objects. For commissioning and decommissioning of serialization items, Item level is always <code>ObjectEvent</code> .	M
<code><eventTime>2016-04-28T19:26:45Z</eventTime></code> <code><eventTimeZoneOffset>-06:00</eventTimeZoneOffset></code>	EventTime: 2016-04-28T19:26:45Z is the time when the event was created. -06:00 is the time difference with UTC	M
<code><epcList></code> <code><epc>urn:epc:id:sgtin:0365250.026620.000000006731</epc></code> Or <code><epc>(01)10012345337007(21)000000002158</epc></code> <code></epcList></code>	Unique Identifier: URN format or GS1 element string format can be used GS1-format using application identifiers for GTIN (01) and serial number (21) can be used	M
<code><action>OBSERVE</action></code>	Action type: how an event relates to the lifecycle of the entity being described <ul style="list-style-type: none"> For object events where additional events will follow: <code>OBSERVE</code> 	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre><bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep></pre>	<p>Business Step: identifies what was taking place from a business perspective at the time of the event. For object event Observe, bizstep can be defined according to business trigger.</p>	M
<pre><disposition>urn:epcglobal:cbv:disp:active</disposition></pre>	<p>Disposition: identifies the business condition subsequent to the event of the physical or digital objects named.</p> <ul style="list-style-type: none"> For object events observe the disposition is: active 	M
<pre><readPoint> <id>urn:epc:id:sgln:0353755.00000.0</id> </readPoint></pre>	<p>The Read Point is the location where the event took place, for example, the SGLN.</p>	M
<pre><bizLocation> <id>urn:epc:id:sgln:0353755.00000.0</id> </bizLocation></pre>	<p>The Business Location is the location where the object(s) is now considered to reside until a subsequent event takes place, for example, a manufacturing site SGLN.</p>	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre> <SAPExtension> <evtAttributes> <RR_RU_DOC_NUM>235A/06/2017</RR_RU_DOC_NUM> <RR_RU_DOC_DATE>30.10.2000</RR_RU_DOC_DATE> <RR_RU_COST_TAXES>15</RR_RU_COST_TAXES> <RR_RU_CUST_SHIP_ID>123456</RR_RU_CUST_SHIP_ID> </evtAttributes> </SAPExtension> </pre>	<p>Each Object Event must have only one SAPExtension Segment</p> <p>In SAP Extension:</p> <ul style="list-style-type: none"> • DOC_NUM describes the document for the business process. • DOC_DATE date of document creation • COST_TAXES • CUST_SHIP_ID 	O

3.2.5 381 Move Owner

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre> <ObjectEvent> </pre>	<p>ObjectEvent: represents an event on one or more physical or digital objects.</p> <p>For commissioning and decommissioning of serialization items, Item level is always ObjectEvent.</p>	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre><eventTime>2016-04-28T19:26:45Z</eventTime> <eventTimeZoneOffset>-06:00</eventTimeZoneOffset></pre>	<p>EventTime: 2016-04-28T19:26:45Z is the time when the event was created.</p> <p>-06:00 is the time difference with UTC</p>	M
<pre><epcList> <epc>urn:epc:id:sgtin:0365250.026620.000000006731</epc> Or <epc>(01)10012345337007(21)000000002158</epc> </epcList></pre>	<p>Unique Identifier:</p> <p>URN format or GS1 element string format can be used</p> <p>GS1-format using application identifiers for GTIN (01) and serial number (21) can be used</p>	M
<pre><action>OBSERVE</action></pre>	<p>Action type: says how an event relates to the lifecycle of the entity being described</p> <ul style="list-style-type: none"> For object events where additional events will follow: OBSERVE 	M
<pre><bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep></pre>	<p>Business Step: identifies what was taking place from a business perspective at the time of the event.</p> <p>For object event Observe, bizstep can be defined according to the business process.</p>	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre><disposition>urn:epcglobal:cbv:disp:active</disposition></pre>	<p>Disposition: identifies the business condition subsequent to the event of the physical or digital objects named.</p> <ul style="list-style-type: none"> For object event Observe, the disposition is: active. 	M
<pre><readPoint> <id>urn:epc:id:sgln:0353755.00000.0</id> </readPoint></pre>	<p>The Read Point is the location where the event took place, for example, the SGLN.</p>	M
<pre><bizLocation> <id>urn:epc:id:sgln:0353755.00000.0</id> </bizLocation></pre>	<p>The Business Location is the location where the object(s) is now considered to reside until a subsequent event takes place, for example, a manufacturing site SGLN.</p>	M
<pre><SAPExtension> <evtAttributes> <RR_RU_DOC_NUM>235A/06/2017</RR_RU_DOC_NUM> <RR_RU_DOC_DATE>30.10.2000</RR_RU_DOC_DATE> </evtAttributes> </SAPExtension></pre>	<p>Each Object Event must have only one SAPExtension Segment</p> <p>In SAP Extension:</p> <ul style="list-style-type: none"> DOC_NUM describes the document for the business process. DOC_DATE date of document creation 	O

3.2.6 415 Move Order

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<code><ObjectEvent></code>	ObjectEvent: represents an event on one or more physical or digital objects. For commissioning and decommissioning of serialization items, Item level is always ObjectEvent .	M
<code><eventTime>2016-04-28T19:26:45Z</eventTime></code> <code><eventTimeZoneOffset>-06:00</eventTimeZoneOffset></code>	EventTime: 2016-04- 28T19:26:45Z is the time when the event was created. -06:00 is the time difference with UTC	M
<code><epcList></code> <code><epc>urn:epc:id:sgtin:0365250.026620.000000006731</epc></code> <code>></code> Or <code><epc>(01)10012345337007(21)000000002158</epc></code> <code></epcList></code>	Unique Identifier: URN format or GS1 element string format can be used GS1-format using application identifiers for GTIN (01) and serial number (21) can be used	M
<code><action>OBSERVE</action></code>	Action type: says how an event relates to the lifecycle of the entity described <ul style="list-style-type: none"> For object events where additional events will follow: OBSERVE 	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre><bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep></pre>	<p>Business Step: identifies what was taking place from a business perspective at the time of the event.</p> <p>For object events observe the bizstep can be defined according to the business trigger</p>	M
<pre><disposition>urn:epcglobal:cbv:disp:active</disposition></pre>	<p>Disposition: identifies the business condition subsequent to the event of the physical or digital objects named.</p> <ul style="list-style-type: none"> For object event Observe, the disposition is: active 	M
<pre><readPoint> <id>urn:epc:id:sgln:0353755.00000.0</id> </readPoint></pre>	<p>The Read Point is the location where the event took place, for example, the SGLN.</p>	M
<pre><bizLocation> <id>urn:epc:id:sgln:0353755.00000.0</id> </bizLocation></pre>	<p>The Business Location is the location where the object(s) is now considered to reside until a subsequent event takes place, for example, a manufacturing site SGLN.</p>	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre> <SAPExtension> <evtAttributes> <RR_RU_DOC_NUM>235A/06/2017</RR_RU_DOC_NUM> <RR_RU_DOC_DATE>30.10.2000</RR_RU_DOC_DATE> <RR_RU_TURNOVER_TYPE>1</RR_RU_TURNOVER_TYPE> <RR_RU_SOURCE>1</RR_RU_SOURCE> <RR_RU_CONTRACT_TYPE>1</RR_RU_CONTRACT_TYPE> <RR_RU_COST>300</RR_RU_COST> <RR_RU_VAT_VALUE>54</RR_RU_VAT_VALUE> </evtAttributes> </SAPExtension> </pre>	<p>Each Object Event must have only one SAPExtension Segment</p> <p>In SAP Extension,</p> <ul style="list-style-type: none"> • DOC_NUM describes the document for the business process. • DOC_DATE date of document creation • TURNOVER_TYP E • SOURCE • CONTRACT_TYP E • COST • VAT_VALUE 	0

3.2.7 416 Receive Order

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<code><ObjectEvent></code>	ObjectEvent: represents an event on one or more physical or digital objects. For commissioning and decommissioning of serialization items, Item level is always ObjectEvent .	M
<code><eventTime>2016-04-28T19:26:45Z</eventTime></code> <code><eventTimeZoneOffset>-06:00</eventTimeZoneOffset></code>	EventTime: 2016-04-28T19:26:45Z is the time when the event was created. -06:00 is the time difference with UTC	M
<code><epcList></code> <code><epc>urn:epc:id:sgtin:0365250.026620.000000006731</epc></code> Or <code><epc>(01)10012345337007(21)000000002158</epc></code> <code></epcList></code>	Unique Identifier: URN format or GS1 element string format can be used GS1-format using application identifiers for GTIN (01) and serial number (21) can be used	M
<code><action>OBSERVE</action></code>	Action type: how an event relates to the lifecycle of the entity described <ul style="list-style-type: none"> For object events where additional events will follow: OBSERVE 	M
<code><bizStep>urn:epcglobal:cbv:bizstep:receiving</bizStep></code>	Business Step: identifies what was taking place from a business perspective at the time of the event. For object event Observe, bizstep can be defined according to the business trigger.	M
<code><disposition>urn:epcglobal:cbv:disp:active</disposition></code>	Disposition: identifies the business condition subsequent to the event of the physical or digital objects named. <ul style="list-style-type: none"> For object event Observe, the disposition is: active. 	M
<code><readPoint></code> <code><id>urn:epc:id:sgln:0353755.00000.0</id></code> <code></readPoint></code>	The Read Point is the location where the event took place, for example, the SGLN.	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre><bizLocation> <id>urn:epc:id:sgln:0353755.00000.0</id> </bizLocation></pre>	<p>The Business Location is the location where the object(s) is now considered to reside until a subsequent event takes place, for example, a manufacturing site SGLN.</p>	M
<pre><SAPExtension> <evtAttributes> <RR_RU_DOC_NUM>dok 1</RR_RU_DOC_NUM> <RR_RU_DOC_DATE>30.10.2000</RR_RU_DOC_DATE> <RR_RU_RECEIVE_TYPE>1</RR_RU_RECEIVE_TYPE> <RR_RU_CONTRACT_TYPE>1</RR_RU_CONTRACT_TYPE> > <RR_RU_COST>123.20</RR_RU_COST> <RR_RU_SOURCE>DE</RR_RU_SOURCE> </evtAttributes> </SAPExtension></pre>	<p>Each Object Event must have only one SAPExtension Segment.</p> <p>In SAP Extension:</p> <ul style="list-style-type: none"> • DOC_NUM describes the document for the business process. • DOC_DATE date of document creation • RECEIVE_TYPE • CONTRACT_TYPE • COST • SOURCE 	O

3.2.8 441 Move Unregistered Order

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<code><ObjectEvent></code>	ObjectEvent: represents an event on one or more physical or digital objects. For commissioning and decommissioning of serialization items, Item level is always ObjectEvent .	M
<code><eventTime>2016-04-28T19:26:45Z</eventTime></code> <code><eventTimeZoneOffset>-06:00</eventTimeZoneOffset></code>	EventTime: 2016-04-28T19:26:45Z is the time when the event was created. -06:00 is the time difference with UTC	M
<code><epcList></code> <code><epc>urn:epc:id:sgtin:0365250.026620.000000006731</epc></code> Or <code><epc>(01)10012345337007(21)000000002158</epc></code> <code></epcList></code>	Unique Identifier: URN format or GS1 element string format can be used GS1-format using application identifiers for GTIN (01) and serial number (21) can be used	M
<code><action>OBSERVE</action></code>	Action type: says how an event relates to the lifecycle of the entity being described <ul style="list-style-type: none"> For object events where additional events will follow: OBSERVE. 	M
<code><bizStep>urn:epcglobal:cbv:bizstep:shipping</bizStep></code>	Business Step: identifies what was taking place from a business perspective at the time of the event. For object event Observe, bizstep can be defined according to the business trigger.	M
<code><disposition>urn:epcglobal:cbv:disp:active</disposition></code>	Disposition: identifies the business condition subsequent to the event of the physical or digital objects named. <ul style="list-style-type: none"> For object event Observe, the disposition is: active. 	M
<code><readPoint></code> <code><id>urn:epc:id:sgln:0353755.00000.0</id></code> <code></readPoint></code>	The Read Point is the location where the event took place, for example, the SGLN.	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre><bizLocation> <id>urn:epc:id:sgln:0353755.00000.0</id> </bizLocation></pre>	<p>The Business Location is the location where the object(s) is now considered to reside until a subsequent event takes place, for example, a manufacturing site SGLN.</p>	M
<pre><SAPExtension> <evtAttributes> <RR_RU_DOC_NUM>235A/06/2017</RR_RU_DOC_NUM> <RR_RU_DOC_DATE>30.10.2000</RR_RU_DOC_DATE> <RR_RU_CONTRACT_TYPE>4</RR_RU_CONTRACT_TYPE> > <RR_RU_COST>1000.0</RR_RU_COST> <RR_RU_VAT_VALUE>10.0</RR_RU_VAT_VALUE> </evtAttributes> </SAPExtension></pre>	<p>Each Object Event must have only one SAPExtension Segment.</p> <p>In the SAP Extension:</p> <ul style="list-style-type: none"> • DOC_NUM describes the document for the business process. • DOC_DATE date of document creation • CONTRACT_TYPE • COST • VAT_VALUE 	O

3.2.9 541 Move Destruction

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre><ObjectEvent></pre>	<p>ObjectEvent: represents an event on one or more physical or digital objects.</p> <p>For commissioning and decommissioning of serialization items, Item level is always ObjectEvent.</p>	M
<pre><eventTime>2016-04-28T19:26:45Z</eventTime> <eventTimeZoneOffset>-06:00</eventTimeZoneOffset></pre>	<p>EventTime: 2016-04-28T19:26:45Z is the time when the event was created.</p> <p>-06:00 is the time difference with UTC</p>	M
<pre><epcList> <epc>urn:epc:id:sgtin:0365250.026620.00000006731</epc> Or <epc>(01)10012345337007(21)000000002158</epc> </epcList></pre>	<p>Unique Identifier:</p> <p>URN format or GS1 element string format can be used</p> <p>GS1-format using application identifiers for GTIN (01) and serial number (21) can be used</p>	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<code><action>OBSERVE</action></code>	<p>Action type: says how an event relates to the lifecycle of the entity being described</p> <ul style="list-style-type: none"> For object events where additional events will follow: OBSERVE. 	M
<code><bizStep>urn:epcglobal:cbv:bizstep:destroying</bizStep></code>	<p>Business Step: identifies what was taking place from a business perspective at the time of the event.</p> <p>For object event Observe, bizstep can be defined according to the business trigger.</p>	M
<code><disposition>urn:epcglobal:cbv:disp:active</disposition></code>	<p>Disposition: identifies the business condition subsequent to the event of the physical or digital objects named.</p> <ul style="list-style-type: none"> For object event Observe, the disposition is: active. If 541 is the last expected event, inactive can be set. 	M
<code><readPoint></code> <code><id>urn:epc:id:sgln:0353755.00000.0</id></code> <code></readPoint></code>	The Read Point is the location where the event took place, for example, the SGLN.	M
<code><bizLocation></code> <code><id>urn:epc:id:sgln:0353755.00000.0</id></code> <code></bizLocation></code>	The Business Location is the location where the object(s) is now considered to reside until a subsequent event takes place, for example, a manufacturing site SGLN.	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre> <SAPExtension> <evtAttributes> <RR_RU_DOC_NUM>Договор 4367</RR_RU_DOC_NUM> <RR_RU_DOC_DATE>30.10.2000</RR_RU_DOC_DATE> <RR_RU_ACT_NUMBER>Акт234</RR_RU_ACT_NUMBER> <RR_RU_ACT_DATE>21.06.2017</RR_RU_ACT_DATE> <RR_RU_DECISION>Акт 126 от 12.05.2017 </RR_RU_DECISION> <RR_RU_DESTRUCT_TYPE>1</RR_RU_DESTRUCT_TYPE > <RR_RU_DESTR_METHOD>DESTRUCTION</RR_RU_DEST R_METHOD> </evtAttributes> </SAPExtension> </pre>	<p>Each Object Event must have only one SAPExtension Segment.</p> <p>In the SAP Extension,</p> <ul style="list-style-type: none"> • DOC_NUM describes the document for the business process. • DOC_DATE date of document creation • ACT_NUMBER • ACT_DATE • DECISION • DESTRUCT_TYPE • DESTR_METHOD 	<p>0</p>

3.2.10 552 Withdrawal

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<code><ObjectEvent></code>	ObjectEvent: represents an event on one or more physical or digital objects. For commissioning and decommissioning of serialization items, Item level is always ObjectEvent .	M
<code><eventTime>2016-04-28T19:26:45Z</eventTime></code> <code><eventTimeZoneOffset>-06:00</eventTimeZoneOffset></code>	EventTime: 2016-04-28T19:26:45Z is the time when the event was created. -06:00 is the time difference with UTC	M
<code><epcList></code> <code><epc>urn:epc:id:sgtin:0365250.026620.000000006731</epc></code> Or <code><epc>(01)10012345337007(21)000000002158</epc></code> <code></epcList></code>	Unique Identifier: URN format or GS1 element string format can be used GS1-format using application identifiers for GTIN (01) and serial number (21) can be used.	M
<code><action>OBSERVE</action></code>	Action type: how an event relates to the lifecycle of the entity described <ul style="list-style-type: none"> For object events where additional events will follow: OBSERVE 	M
<code><bizStep>urn:epcglobal:cbv:bizstep:destroying</bizStep></code>	Business Step: identifies what was taking place from a business perspective at the time of the event. For object event Observe, bizstep can be defined according to the business trigger, such as killing , or destroying .	M
<code><disposition>urn:epcglobal:cbv:disp:active</disposition></code>	Disposition: identifies the business condition subsequent to the event of the physical or digital objects named. <ul style="list-style-type: none"> For object event Observe, the disposition is: active. If 541 is the last expected event, inactive can be set. 	M
<code><readPoint></code> <code><id>urn:epc:id:sgln:0353755.00000.0</id></code> <code></readPoint></code>	The Read Point is the location where the event took place, for example, the SGLN.	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre><bizLocation> <id>urn:epc:id:sgln:0353755.00000.0</id> </bizLocation></pre>	<p>The Business Location is the location where the object(s) is now considered to reside until a subsequent event takes place, for example, a manufacturing site SGLN.</p>	M
<pre><SAPExtension> <evtAttributes> <RR_RU_DOC_NUM>235A/06/2017</RR_RU_DOC_NUM> <RR_RU_DOC_DATE>30.10.2000</RR_RU_DOC_DATE> <RR_RU_WITHDRAWAL_TYPE>12</RR_RU_WITHDRAWAL_TYPE> <RR_RU_DESTR_METHOD>DESTRUCTION</RR_RU_DESTR_METHOD> </evtAttributes> </SAPExtension></pre>	<p>Each Object Event must have only one SAPExtension Segment.</p> <p>In the SAP Extension:</p> <ul style="list-style-type: none"> • DOC_NUM describes the document for the business process. • DOC_DATE date of document creation • WITHDRAWAL_TYPE • DESTR_METHOD 	O

4 Planned Scenarios

This section describes planned scenarios in SAP ATTP 2.0 FP 04 based on the draft specification released by the Russian Government in February 2019 (v.1.26). In the event that this interface for the government system changes, the specification will need to be adopted.

Note

SAP offers no firm commitment to deliver planned scenarios.

SAP offers no commitment to deliver planned scenarios in ATTP FP04.

4.1 Serial Number Exchange and Crypto Code Support

SAP plans to support the request for Crypto Codes as well as the exchange of Crypto Codes for internal Line Systems and CMOs.

To minimize the impact on existing Line and 3PL connections, and interface designs, SAP plans to include the full Crypto Code in the standard ATTP Serial Number Request format V 2.0.

SAP plans to introduce automatic request of Crypto Codes during Serial Number Generation in ATTP if the respective Trade Item is identified as Crypto Code relevant.

To request Serial Numbers including a Crypto Code, you must set the IV_READYLY_ENCODE parameter in the Serial Number Request.

When receiving Serial Numbers for GTINs that are Crypto Code relevant, the Crypto Code delivered in the Application Identifier will be decoded, and if successfully decoded, saved in the System.

4.1.1 Example Serial Number Request

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre><IS_TRADE_ITEM> <TRADE_ITEM_TYPE>GTIN</TRADE_ITEM_TYPE> <TRADE_ITEM_ID>16400000000115</TRADE_ITEM_ID> </IS_TRADE_ITEM></pre>	Trade Item Details are in the IS_TRADE_ITEM section, identification by GTIN.	M
<pre><IV_LIST_RANGE>L</IV_LIST_RANGE></pre>	Crypto Codes relevance for randomized Serial Numbers.	M
<pre><IV_READYLY_ENCODE>1</IV_READYLY_ENCODE></pre>	Setting the parameter IV_READYLY_ECNODE to "1" sets the encoding type to the GS1 Element String format.	M
<pre><IV_SIZE>10</IV_SIZE></pre>	Size of the Serial Number Request	M
<pre><IV_SYSTEM>LINE_SYSTEM</IV_SYSTEM></pre>	Requesting System in ATTP	M

4.1.2 Example Serial Number Response

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre><ES_TRADE_ITEM> <TRADE_ITEM_TYPE>GTIN</TRADE_ITEM_TYPE> <TRADE_ITEM_ID>04150013401755</TRADE_ITEM_ID> </ES_TRADE_ITEM></pre>	Trade Item Identification in the Serial Number Response.	M
<pre><ET_ENCODED> <item> <OBJ_CODE> (01) 16400000000115 (21) j89TCnKkLPd 5X (240) 1234 (91) 1129 (92) AusibQLCfH2fbOoXL3yU 77gRBOsnhdkljRGjZvl7gy0Uu9E110x6S2RzaWbKSgI 1RmYQnZyumM6ZWhx3ktKOCw==</OBJ_CODE> </item> </ET_ENCODED></pre>	Encoded Serial Numbers including Crypto Code are returned.	M

Content from examples	Explanation	Mandatory/ Optional/ Conditional
<pre> <ET_RETURN> <item> <TYPE>I</TYPE> <ID>/STTP/SNR_EX_MSG</ID> <NUMBER>501</NUMBER> <MESSAGE>Serial Number Request (list) received from LINE_SYSTEM</MESSAGE> <LOG_NO/> <LOG_MSG_NO>000000</LOG_MSG_NO> <MESSAGE_V1>LINE_SYSTEM</MESSAGE_V1> <MESSAGE_V2/> <MESSAGE_V3/> <MESSAGE_V4/> <PARAMETER/> <ROW>0</ROW> <FIELD/> <SYSTEM/> </item> </ET_RETURN> </pre>	<p>Log Messages in ET_RETURN section depending on Log Levels set in General Customizing.</p>	

5 Important Disclaimers and Legal Information

5.1 Coding Samples

Any software coding and/or code lines/strings ("Code") included in this documentation are only examples and are not intended to be used in a productive system environment. The Code is only intended to better explain and visualize the syntax and phrasing rules of certain coding. SAP does not warrant the correctness and completeness of the Code given herein, and SAP shall not be liable for errors or damages caused by the usage of the Code, unless damages were caused by SAP intentionally or by SAP's gross negligence.

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Material Number: