PAYMENTS
CANADA

Usage Guideline

RTR_SystemEventAcknowledgement-V01_admi.011.001.01

RTR_FINAL_V1.2_AdministrationMessages_SR2019

This document describes a usage guideline restricting the base message **MX admi.011.001.01**. You can also consult this information online.

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Message Functionality

This Usage Guideline is based on the admi.011.001.01 message definition. In addition, Payments Canada has defined usage of BusinessApplicationHeaderV01 as optional . The following section will be dealing with the admi.011.001.01 only.

Overview

```
This document outlines the specifications for the RTR ISO 20022 System Event Acknowl-
edgement (Heartbeat Acknowledgement) message. Prior to reading this RTR ISO 20022
 Message Specification, it is highly recommended to read the RTR ISO 20022 Message
 Specification Companion Document that is published alongside it since the Companion
 provides high-level context and an overview of the message portfolio and content.

RTR Usage:
This message will be sent by the RTR Participants to RTR as a receipt acknowledgment
 of the heartbeat notification admi.004 message.

Scope:
The SystemEventAcknowledgement message is sent by a participant of a central system
 to the central system to acknowledge the notification of an occurrence of an event
 in a central system.
```

Collection Description

Descriptive Text for all Messages in the RTR Portfolio:

ISO 20022 messages for RTR based on ISO 20022 MDG meetings from 2018 through 2021.

Outline

The RTR_FINAL_V1.2_AdministrationMessages_SR2019 / RTR_SystemEventAcknowledge-mentV01_admi.011.001.01 message is composed of 5 building blocks

a. MessageIdentification

Unique and unambiguous identifier for the message, as assigned by the sender.

b. OriginatorReference

Represents the original reference of the system event notification for which the acknowledgement is given, as assigned by the central system.

c. SettlementSessionIdentifier

To indicate the requested CLS Settlement Session that the related trade is part of.

d. AcknowledgementDetails

Details of the system event being acknowledged.

e. SupplementaryData

Additional information that cannot be captured in the structured elements and/or any other specific block.

1 Restriction summary

This Usage Guideline restricts the admi.011.001.01 message.

Restriction Type	See page
Removed elements	6, 6, 7, 8, 9
Make mandatory	7, 9
Reduce Multiplicity	n.a.
Ignore	n.a.
Text rules	n.a.
Conditional rules	n.a.
Formal rules	n.a.
Fixed values	8
Truncates	n.a.
Comments	9
Annotations	n.a.
Changed datatypes	n.a.
Extensions	n.a.
Synonyms	n.a.

2   Structure

🚫 Removed - ⚠️🚫 Partial Removed - 🔶 Ignored - ❗🔶 Partial Ignored - ⚠️ Details below - **M** Mandatory - R[x..x] Repeatability[details]

Index	Message Item	<XML Tag>	Or	Mult.	Usage Guidelines	Page
	SystemEventAcknowledgementV01	*<SysEvtAck>*		[1..1]		
	MessageIdentification	*<MsgId>*		[1..1]		6
	OriginatorReference	*<OrgtrRef>*		[0..1]	🚫	6
	SettlementSessionIdentifier	*<SttlmSsnIdr>*		[0..1]	🚫	6
	AcknowledgementDetails	*<AckDtls>*		[0..1]	**M**	6
	EventCode	*<EvtCd>*		[1..1]	⚠️	8
	EventParameter	*<EvtParam>*		[0..*]	🚫	8
	EventDescription	*<EvtDesc>*		[0..1]	**M** ⚠️	9
	EventTime	*<EvtTm>*		[0..1]	🚫	9
	SupplementaryData	*<SplmtryData>*		[0..*]	🚫	7
	PlaceAndName	*<PlcAndNm>*		[0..1]		10
	Envelope	*<Envlp>*		[1..1]		10

3 Message Building Blocks

Note	The following chapter identifies the building blocks of the RTR_FINAL_V1.2_Administra-tionMessages_SR2019 / RTR_SystemEventAcknowledgementV01_admi.011.001.01 message definition.

3.1 MessageIdentification

XML Tag: MsgId

Presence: [1..1]

Definition: Unique and unambiguous identifier for the message, as assigned by the sender.

Datatype: "Max35Text" on page 12

3.2 OriginatorReference

XML Tag: OrgtrRef

Presence: [0..1]

Definition: Represents the original reference of the system event notification for which the acknowledgement is given, as assigned by the central system.

Datatype: "Max35Text" on page 12

Usage Guideline details

- **This element(admi.011.001.01/OriginatorReference) is removed.**

3.3 SettlementSessionIdentifier

XML Tag: SttlmSsnIdr

Presence: [0..1]

Definition: To indicate the requested CLS Settlement Session that the related trade is part of.

Datatype: "Exact4AlphaNumericText" on page 11

Usage Guideline details

- **This element(admi.011.001.01/SettlementSessionIdentifier) is removed.**

3.4 AcknowledgementDetails

XML Tag: AckDtls

Presence: [0..1]

Definition: Details of the system event being acknowledged.

The **AckDtls** block contains the following elements (see datatype "Event1" on page 8 for details)

🚫 Removed - �ⓘ🚫 Partial Removed - ◇ Ignored - ⓘ◇ Partial Ignored - ⚠ Details below - Ⓜ Mandatory - R[x..x] Repeatability[details]

Index	Message Item	<XML Tag>	Or	Mult.	Usage Guidelines	Page
	EventCode	<EvtCd>		[1..1]	⚠	8
	EventParameter	<EvtParam>		[0..*]	🚫	8
	EventDescription	<EvtDesc>		[0..1]	Ⓜ ⚠	9
	EventTime	<EvtTm>		[0..1]	🚫	9

Usage Guideline details

- **on admi.011.001.01/AcknowledgementDetails**

  This element is now mandatory, the minimum occurrence has been changed to : 1

3.5 SupplementaryData

XML Tag: SplmtryData

Presence: [0..*]

Definition: Additional information that cannot be captured in the structured elements and/or any other specific block.

The **SplmtryData** block contains the following elements (see datatype "SupplementaryData1" on page 9 for details)

🚫 Removed - ⓘ🚫 Partial Removed - ◇ Ignored - ⓘ◇ Partial Ignored - ⚠ Details below - Ⓜ Mandatory - R[x..x] Repeatability[details]

Index	Message Item	<XML Tag>	Or	Mult.	Usage Guidelines	Page
	PlaceAndName	<PlcAndNm>		[0..1]		10
	Envelope	<Envlp>		[1..1]		10

Usage Guideline details

- **This element(admi.011.001.01/SupplementaryData) is removed.**

4   Message Components

Note	The following chapter identifies the message components.

4.1   Event1

Definition: Provides information on an event that happened in a system.

🚫 Removed - !🚫 Partial Removed - ◇ Ignored - !◇ Partial Ignored - ⚠ Details below -
M Mandatory - R[x..x] Repeatability[details]

Index	Message Item	*<XML Tag>*	Or	Mult.	Usage Guidelines	Page
	EventCode	*<EvtCd>*		[1..1]	⚠	8
	EventParameter	*<EvtParam>*		[0..*]	🚫	8
	EventDescription	*<EvtDesc>*		[0..1]	**M** ⚠	9
	EventTime	*<EvtTm>*		[0..1]	🚫	9

Used in element(s)

"AcknowledgementDetails" on page 6

4.1.1   EventCode

XML Tag: EvtCd

Presence: [1..1]

Definition: Proprietary code used to specify an event that occurred in a system.

Datatype: "Max4AlphaNumericText" on page 12

Usage Guideline details

- **on admi.011.001.01/AcknowledgementDetails/EventCode**

  Single value: HBRT

4.1.2   EventParameter

XML Tag: EvtParam

Presence: [0..*]

Definition: Describes the parameters of an event which occurred in a system.

Datatype: "Max35Text" on page 12

Usage Guideline details

- **This element(admi.011.001.01/AcknowledgementDetails/EventParameter) is removed.**

4.1.3 EventDescription

XML Tag: EvtDesc

Presence: [0..1]

Definition: Free text used to describe an event which occurred in a system.

Datatype: "Max350Text" on page 11

Usage Guideline details

- **on admi.011.001.01/AcknowledgementDetails/EventDescription**

 *This element is now mandatory, the minimum occurrence has been changed to :* 1

- **on admi.011.001.01/AcknowledgementDetails/EventDescription**

  Comment:
  This element must be populated with the Heartbeat notification reference that was provided in the Event Description element in the admi.004 from the RTR Exchange.

4.1.4 EventTime

XML Tag: EvtTm

Presence: [0..1]

Definition: Date and time at which the event occurred.

Datatype: "ISODateTime" on page 11

Usage Guideline details

- **This element(admi.011.001.01/AcknowledgementDetails/EventTime) is removed.**

4.2 SupplementaryData1

Definition: Additional information that can not be captured in the structured fields and/or any other specific block.

🚫 Removed - !🚫 Partial Removed - ◇ Ignored - !◇ Partial Ignored - ⚠ Details below -
Ⓜ Mandatory - R[x..x] Repeatability[details]

Index	Message Item	*<XML Tag>*	Or	Mult.	Usage Guidelines	Page
	PlaceAndName	*<PlcAndNm>*		[0..1]		10
	Envelope	*<Envlp>*		[1..1]		10

Rules

R1   SupplementaryDataRule

This component may not be used without the explicit approval of a SEG and submission to the RA of ISO 20022 compliant structure(s) to be used in the Envelope element.

Error handling: Undefined

Used in element(s)

<u>"SupplementaryData" on page 7</u>

4.2.1 PlaceAndName

XML Tag: PlcAndNm

Presence: [0..1]

Definition: Unambiguous reference to the location where the supplementary data must be inserted in the message instance.

In the case of XML, this is expressed by a valid XPath.

Datatype: <u>"Max350Text" on page 11</u>

4.2.2 Envelope

XML Tag: Envlp

Presence: [1..1]

Definition: Technical element wrapping the supplementary data.

5 Message Datatypes

Note	The following chapter identifies the datatypes that are used in the message.

5.1 Exact4AlphaNumericText

Definition: Specifies an alphanumeric string with a length of 4 characters.

Type: Text

Format

pattern	[a-zA-Z0-9]{4}

5.2 ISODateTime

Definition: A particular point in the progression of time defined by a mandatory date and a mandatory time component, expressed in either UTC time format (YYYY-MM-DDThh:mm:ss.sssZ), local time with UTC offset format (YYYY-MM-DDThh:mm:ss.sss+/-hh:mm), or local time format (YYYY-MM-DDThh:mm:ss.sss). These representations are defined in "XML Schema Part 2: Datatypes Second Edition - W3C Recommendation 28 October 2004" which is aligned with ISO 8601.

Note on the time format:

1) beginning / end of calendar day

00:00:00 = the beginning of a calendar day

24:00:00 = the end of a calendar day

2) fractions of second in time format

Decimal fractions of seconds may be included. In this case, the involved parties shall agree on the maximum number of digits that are allowed.

Type: DateTime

Used in element(s)

5.3 Max350Text

Definition: Specifies a character string with a maximum length of 350 characters.

Type: Text

Format

maxLength	350
minLength	1

Used in element(s)

"EventDescription" on page 9, "PlaceAndName" on page 10

5.4 Max35Text

Definition: Specifies a character string with a maximum length of 35 characters.

Type: Text

Format

maxLength	35
minLength	1

Used in element(s)

"EventParameter" on page 8

5.5 Max4AlphaNumericText

Definition: Specifies an alphanumeric string with a maximum length of 4 characters.

Type: Text

Format

maxLength	4
minLength	1
pattern	[a-zA-Z0-9]{1,4}

Used in element(s)

"EventCode" on page 8

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