

Usage Guideline

RTR_SystemEventNotification- V02_admi.004.001.02

RTR_FINAL_V1.2_AdministrationMessages_SR2019

This document describes a usage guideline restricting the base message **MX admi.004.001.02**. You can also consult [this information online](#).

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Message Functionality

This Usage Guideline is based on the admi.004.001.02 message definition. In addition, Payments Canada has defined usage of BusinessApplicationHeaderV01 as optional . The following section will be dealing with the admi.004.001.02 only.

Overview

This document outlines the specifications for the RTR ISO 20022 System Event Notification (Heartbeat Notification) 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 Exchange as an application heartbeat notification to RTR Participants.

Scope:

The SystemEventNotification message is sent by a central system to notify the occurrence of an event in a central system.

Usage:

The message can be used by a central settlement system to inform its participants of an event that is going to occur in the system, for instance that the system will be down at a certain time, etc.

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_SystemEventNotificationV02_admi.004.001.02 message is composed of 1 building blocks

- a. EventInformation







Detailed information about a system event.






1 Restriction summary

This Usage Guideline restricts the adm.004.001.02 message.

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

2 Structure

 Removed -
  Partial Removed -
  Ignored -
  Partial Ignored -
  Details below -
 Mandatory - R[x..x] Repeatability[details]

| Index | Message Item | <XML Tag> | Or | Mult. | Usage Guidelines | Page |
|-------|-----------------------------------|----------------|----|--------|---|------|
| | <i>SystemEventNotificationV02</i> | <SysEvtNtfctn> | | [1..1] | | |
| | EventInformation | <EvtInf> | | [1..1] | | 6 |
| | EventCode | <EvtCd> | | [1..1] |  | 7 |
| | EventParameter | <EvtParam> | | [0..*] |  | 7 |
| | EventDescription | <EvtDesc> | | [0..1] |   | 8 |
| | EventTime | <EvtTm> | | [0..1] |  | 8 |

3 Message Building Blocks

Note The following chapter identifies the building blocks of the RTR_FINAL_V1.2_AdministrationMessages_SR2019 / RTR_SystemEventNotificationV02_admi.004.001.02 message definition.

3.1 EventInformation

XML Tag: EvtInf

Presence: [1..1]

Definition: Detailed information about a system event.

The **EvtInf** block contains the following elements (see datatype "Event2_1" on page 7 for details)

⊘ 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] | ▲ | 7 |
| | EventParameter | <EvtParam> | | [0..*] | ⊘ | 7 |
| | EventDescription | <EvtDesc> | | [0..1] | M ▲ | 8 |
| | EventTime | <EvtTm> | | [0..1] | ⊘ | 8 |






4 Message Components

Note The following chapter identifies the message components.

4.1 Event2__1

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

 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] |  | 7 |
| | EventParameter | <EvtParam> | | [0..*] |  | 7 |
| | EventDescription | <EvtDesc> | | [0..1] |   | 8 |
| | EventTime | <EvtTm> | | [0..1] |  | 8 |

Used in element(s)

["EventInformation"](#) 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 10

Usage Guideline details

- on [admi.004.001.02/EventInformation/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 9

Usage Guideline details

- **This element([admi.004.001.02/EventInformation/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 9](#)

Usage Guideline details

- **on [admi.004.001.02/EventInformation/EventDescription](#)**

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

- **on [admi.004.001.02/EventInformation/EventDescription](#)**

Type changed to: [Max350Text on page 9](#)

- **on [admi.004.001.02/EventInformation/EventDescription](#)**

Comment:

This element will be populated with a reference for the Heartbeat notification. It must be sent back to the RTR Exchange in the admi.011.

4.1.4 EventTime

XML Tag: EvtTm

Presence: [0..1]

Definition: Date and time at which the event occurred.

Datatype: ["ISODatetime" on page 9](#)

Usage Guideline details

- **This element([admi.004.001.02/EventInformation/EventTime](#)) is removed.**

5 Message Datatypes

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

5.1 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)

"EventTime" on page 8

5.2 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 8

5.3 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 7

5.4 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 7

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