

Request for a UNSM
(United Nations Standard Message)

UN LOG:	
UN DATE :	
Requester:	D2 / EEG1
EP LOG :	WE-
EP DATE	
User ref:	Ediel45
User date:	1999-10-18

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Name of Message :	Infrastructure condition message
Message TAG (eg INVOIC):	INFCON
Message function:	<p>A message sent by a responsible party to other interested parties regarding the condition of a component in a commercial services or utilities infrastructure.</p> <p>An Infrastructure condition message concerning an infrastructure component may be sent:</p> <ul style="list-style-type: none"> • To notify scheduled downtime • To notify unscheduled downtime • To forecast availability • On the occurrence of a selected event <p>The message may be an initial message and does not require a response.</p> <p>The message contains condition, availability and other management information in coded or free text format.</p> <p>This message is typically used in cases where a component in a network is taken down for repair or has broken down, for example:</p> <ul style="list-style-type: none"> • Information about interruption or planned maintenance in a power grid • Information about the condition of components in gas or oil supply lines • Road traffic management • Air traffic management • Telephone network • Value added networks (VAN)
Message class (Batch/interactive)	Batch
Business need	In the power market there is a need to inform the participants about components in the power grid that are down. Components could be transformer stations, parts of the grid, etc. The reason for the downtime

	<p>could be faults or planned repair.</p> <p>When a major component in the grid is down it may be necessary to increase or decrease the production of power in different power plants. In addition there is a need for the players at the power exchange to know the status of the grid when making bids for buying or selling of power.</p> <p>The Infrastructure condition message has been built up in a general manner, such that it can also be used in other markets or businesses.</p>
Based on Directory:	D.00B
UN log of the MID:	UN-99-00403

ATTACHED DOCUMENTATION

UN/EDIFACT

UNITED NATIONS STANDARD MESSAGE (UNSM)

Infrastructure condition message

Message Type : INFCON
Version : D
Release : 00B
Contr. Agency: UN
Date: 1999-10-18

Source: D2 Purchasing (SWG)

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For general information on UN standard message types see UN Trade Data
Interchange Directory, UNTDID, Part 4, Section 2.3, UN/ECE UNSM General
Introduction

0. INTRODUCTION

This specification provides the definition of the Infrastructure condition message (INFCON) to be used in Electronic Data Interchange (EDI) between trading partners involved in administration, commerce and transport.

1. SCOPE

1.1 Functional Definition

The Infrastructure condition message is sent by a responsible party to other interested parties regarding the condition of a component in a commercial services or utilities infrastructure.

1.2 Field of Application

The Infrastructure condition message may be used for both national and international applications. It is based on universal practice related to administration, commerce and transport, and is not dependent on the type of business or industry.

1.3 Principles

An Infrastructure condition message concerning an infrastructure component may be sent:

- To notify scheduled downtime
- To notify unscheduled downtime
- To forecast availability
- On the occurrence of a selected event

The message may be an initial message and does not require a response.

The message contains condition, availability and other management information in coded or free text format.

This message is typically used in cases where a component in a network is taken down for repair or has broken down, for example in:

- Power grids
- Gas or oil supplies lines
- Road traffic management
- Air traffic management
- Telephone networks
- Value added networks (VAN)

2. REFERENCES

See UNTDID, Part 4, Chapter 2.3 UN/ECE UNSM - General Introduction, Section 1.

3. TERMS AND DEFINITIONS

3.1 Standard terms and definitions

See UNTDID, Part 4, Chapter 2.3 UN/ECE UNSM - General Introduction, Section 2.

4. MESSAGE DEFINITION

4.1 Segment clarification

This section should be read in conjunction with the Segment table which indicates mandatory, conditional and repeating requirements.

4.1.1 Header section

Information to be provided in the header section:

0010 UNH, Message header

A service segment starting and uniquely identifying a message. The message type code for the Infrastructure condition message is INFCON.

Note: Infrastructure condition messages conforming to this document must contain the following data in segment UNH, composite S009:

Data element 0065 INFCON
0052 D
0054 00B
0051 UN

0020 BGM, Beginning of message

A segment by which the sender uniquely identifies the Infrastructure condition message by means of its name and number and when necessary its function.

0030 DTM, Date/time/period

A segment specifying general dates and, when relevant, times related to the whole message. The segment must be specified at least once to specify the message date as allocated by the sender.

0040 FTX, Free text

A segment with free text information, in coded or clear form, used when additional information is needed, which is relevant for all components described in the actual message but cannot be accommodated within other segments.

0050 Segment group 1: RFF-DTM

A group of segments for giving references and where necessary, their dates, relating to the whole message.

0060 RFF, Reference

A segment identifying a reference by its type and number.

0070 DTM, Date/time/period

A segment specifying the date/time related to the referenced information.

- 0080 Segment group 2: NAD-SG3
A group of segments identifying the parties with associated information relevant to the whole message.
- 0090 NAD, Name and address
A segment identifying names and addresses of the parties, in coded or clear form, and their functions relevant to the message. At least one NAD-segment is required. This will normally be the party responsible for the component(s) described. It is recommended that, if possible, only the coded form of the party ID should be specified.
- 0100 Segment group 3: CTA-COM
A group of segments giving contact details of a specific person and/or department within the party identified.
- 0110 CTA, Contact information
A segment to identify a person and/or department, and their function, to whom communications should be directed.
- 0120 COM, Communication contact
A segment to identify a communication type and number for the contact specified.

4.1.2 Detail section

Information to be provided in the detail section:

- 0130 Segment group 4: LOC-DTM-NAD-FTX-SG5-SG6-SG7
A group of segments identifying the component being reported. This includes the party responsible for the component, the physical characteristics of the component, the reason for the downtime and the scheduled downtime of the component.
- 0140 LOC, Place/location identification
A segment to identify the location of the component being reported. It is recommended that, where possible, codes should be used to identify the component to facilitate automatic processing.
- 0150 DTM, Date/time/period
A segment to specify dates associated with the downtime, availability or occurrence of an event connected to the component.
- 0160 NAD, Name and address
A segment to identify parties and/or addresses related to the component, such as installation address.
- 0170 FTX, Free text
A segment with free text information, in coded or clear form, used when additional information on the downtime, availability or occurrence of an event connected to the component is needed but cannot be accommodated within other

segments. In computer to computer exchanges such text will normally require the receiver to process this segment manually.

- 0180 Segment group 5: CCI-CAV
A group of segments providing characteristics and characteristic details of the component.
- 0190 CCI, Characteristic/class id
A segment to identify characteristic and/or the characteristic name and characteristic relevance for the component.
- 0200 CAV, Characteristic value
A segment to specify characteristic of the component, by value in either coded form or in free format.
- 0210 Segment group 6: QTY-DTM
A group of segments to provide quantity change or other relevant quantities for the specified component and, where relevant, related date and time information, for example indication of capacity within a given period.
- 0220 QTY, Quantity
A segment to specify quantities related to the component.
- 0230 DTM, Date/time/period
A segment indicating date or time details relating to the quantity, for example indication of capacity within a given period.
- 0240 Segment group 7: SCC-DTM
A group of segment specifying schedules related to the downtime, availability or occurrence of an event connected to the component.
- 0250 SCC, Scheduling conditions
A segment specifying the type and status of the schedule being given, and optionally defining a pattern to be established, such as estimated schedule for the downtime, availability or occurrence of an event connected to the component.
- 0260 DTM, Date/time/period
A segment indicating the date/time details relevant to the schedule details. This segment may be used to indicate date/time ranges.
- 0270 UNT, Message trailer
A service segment ending a message, giving the total number of segments in the message and the control reference number of the message.

4.2 Segment index (Alphabetical sequence)

BGM Beginning of message
CAV Characteristic value
CCI Characteristic/class id
COM Communication contact
CTA Contact information
DTM Date/time/period
FTX Free text
LOC Place/location identification
NAD Name and address
QTY Quantity
RFF Reference
SCC Scheduling conditions
UNH Message header
UNT Message trailer

4.3 Message structure

4.3.1 Segment table

Pos	Tag Name	S	R
HEADER SECTION			
0010	UNH Message header	M	1
0020	BGM Beginning of message	M	1
0030	DTM Date/time/period	M	9
0040	FTX Free text	C	9
0050	----- Segment group 1 -----	C	9 -----+
0060	RFF Reference	M	1
0070	DTM Date/time/period -----	C	9 -----+
0080	----- Segment group 2 -----	M	99 -----+
0090	NAD Name and address	M	1
0100	----- Segment group 3 -----	C	9 -----+
0110	CTA Contact information	M	1
0120	COM Communication contact -----	C	9 -----++
DETAIL SECTION			
0130	----- Segment group 4 -----	M	999 -----+
0140	LOC Place/location identification	M	1
0150	DTM Date/time/period	C	9
0160	NAD Name and address	C	9
0170	FTX Free text	C	9
0180	----- Segment group 5 -----	C	9 -----+
0190	CCI Characteristic/class id	M	1
0200	CAV Characteristic value	C	9 -----+
0210	----- Segment group 6 -----	C	9 -----+
0220	QTY Quantity	M	1
0230	DTM Date/time/period -----	C	9 -----+
0240	----- Segment group 7 -----	C	9 -----+
0250	SCC Scheduling conditions	M	1
0260	DTM Date/time/period -----	C	9 -----++
0270	UNT Message trailer	M	1