
JCSS Interface Control Document

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Disclaimer: As of October 2007, NETWARS was redesignated by the Program Manager Office as the Joint Communications Simulation System (JCSS). JCSS was selected as the new industry name to better reflect the inherent joint communication capabilities of the software. Users should be aware that no software updates were conducted as part of the software name change.

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1 File Formats for Statistics Collection

The statistics APIs should be used to initialize the statistic files and write values to them. This will synchronize the stats between all devices in the simulation.

1.1 OV-Based Statistics

Output Vector (OV) is an OPNET proprietary format used for displaying results. The networking devices in JCSS use standard OPNET statistics, created through the `op_stat_*`() kernel procedures. Any node level statistic can be probed from the Scenario Builder. Model developers who wish to collect node level statistics should promote the statistic to the node level and choose the statistic when creating the scenario. Standard JCSS OE models also collect the IER statistics in the OV format.

The simulation models should write out the statistic values into the OV file – which can be post processed by the tool to generate VEC (vector) text files.

For integration with the HLA environment, calls to the `op_stat_*`() kernel procedures should be changed to the equivalent `nw_stat_*`() API functions.

1.1.1 Vector file format

The post processing converts the OV based statistics (OV files) into vector files (*.vec) for processing by an analysis tool (i.e., JCSS or external scripts). The vector files are named as `<scenario_name>_statistic_.vec` and have the following format:

```
Vector <number>
Name: <scenario_name>/<link or node name> <statistic name>
Number of Samples <number say n>
<Time> <Value>
<Time n> <Value n>
```

2 Generic Data File Formats

General Data Files (GDF) are used in JCSS for information that is needed by the scenario builder either for set of default values (e.g. set of values for particular link type, IER defaults, etc.) or for the information needed to retrieve the earlier software state information (e.g. who logged in? what were the prior projects opened etc?).

There are two main locations where the GDF files are stored in the JCSS file system. The first location is <JCSS_Install_Dir>\Scenario_Builder\<OPNET version>\netwars\rules and the other location is <JCSS_Install_Dir>\User_Data\rules. The first location has the set of files that come with the installation of the software and can be considered as standard set of GDF files. The other set of files are the files that are either created on fly during the software use or the files that are copied from the first location based on the user customization.

For example, a user modified the default value of link attributes, this will modify the contents LinkTypeMap.gdf file located in the <JCSS_Install_Dir>\Scenario_Builder\<OPNET version>\netwars\rules and copy it to the User_Data\Rules folder, keeping the copy under the netwars\rules folder intact.

2.1 Link Types (LinktypeMap.gdf)

This file contains information about all the types of links currently supported for the inter-OPFAC links. For each type of the link its corresponding OPNET link model, its data rate, packet formats supported, classification, forward and reverse bandwidth, classification, probe to be created and other information is included.

The LinktypeMap.gdf file is used by the scenario builder to:

- Populate the defaults for the Link Attribute table based when a link is created.
- Verify the link connection between the OPFACs.

Following is the format of the file and few sample entries for this file:

```
# Format:
#
# JCSS Linktype: Basic Linktype: model name: data packet format, data packet
#   format,...:
# voice packet format, voice packet format...:classification:forward
#   bandwidth:reverse bandwidth:
#   frequency:number of voice channels:channel size for voice:throughput probe:
#   channel mop probe:capacity,capacity,...

eplrs_ptp:radio:EPLRS_PTP:ip_dgram_v4:none:SECRET:120000.00:120000.00:420000.00:0:1
6000.00:"Don't Include":120000.000000
100BaseT:wire:100BaseT:ethernet_v2:none:UNCLASSIFIED:100000000.00:100000000.00:0.00
:0:16000.00:"Don't Include":100000000.000000
10BaseT:wire:10BaseT:ethernet_v2:none:UNCLASSIFIED:10000000.00:10000000.00:0.00:0:1
6000.00:"Don't Include":10000000.000000
ATM_SONET_OC1:wire:ATM_SONET_OC1:ams_atm_cell:ams_atm_cell:UNCLASSIFIED:49536000.00
:49536000.00:0.00:0:16000.00:"Don't
Include":148608000.000000,594432000.000000,1188864000.000000,2377728000.000000
0
```

2.2 Broadcast Network Types (*net_configs*)

This file contains information about all the types of broadcast network currently supported by Scenario Builder. For each type of network, it specifies default Classification, bandwidth, frequency, and Utilization probe inclusion flag values.

Following is the format and few sample entries for this file:

```
# Network Type; Classification; Bandwidth; Frequency; Utilization Probe;
# Comma separated list of possible capacities;
# Comma separated list of data packet formats;
# Comma separated list of voice packet formats

sincgars;CONFIDENTIAL;96000;30000;"Include";4000,10000,20000,60000;radio_packet;radio_packet
hf_radio;UNKNOWN;16000;3000;"Don't
Include";10000,20000,40000;radio_packet;radio_packet
vhf_radio;UNCLASSIFIED;16000;35000;"Include";1000,5000,10000,20000;radio_packet;radio_packet
uhf_radio;TOP SECRET;16000;225000;"Don't
Include";1000,4000,10000,40000;radio_packet;radio_packet
link_16;SECRET;238000;960000;"Include";4000,6000,12000,25000;jtids_pk;all
formatted,unformatted
havequick;CONFIDENTIAL;16000;120000;"Don't
Include";3000,4000,10000,20000;havequick_packet;havequick_packet
eplrs_brdcst_0;UNCLASSIFIED;120000;45;"Include";1000,5000,20000,40000,80000;eplrs_packet_0;eplrs_packet_0
eplrs_brdcst_1;UNCLASSIFIED;120000;60;"Include";1000,5000,20000,40000,80000;eplrs_packet_1;eplrs_packet_1
```

2.3 IER Defaults (*ier_configs*)

This file is used to provide the default values for the IER. For each traffic type the traffic classification, perishability, traffic priority, type of the equipment to be used and IER details like distribution type, distribution mean, start and stop times, and average size of the IER is included.

The file format and sample entries are below:

```
# Traffic Type; Classification; Perishability; Priority; Avg. Size; Equipment;
# Distribution Type; Distribution Mean; Start Time; Stop Time

VOICE;UNCLASSIFIED;100.000000;IMMEDIATE;4;RADIO;UNIFORM;15.000000;0;END
DATA;UNCLASSIFIED;500.000000;ROUTINE;1024;COMPUTER;CONSTANT;130.000000;100;END
VTC;UNCLASSIFIED;100.000000;IMMEDIATE;4;PHONE;CONSTANT;120.000000;0;END
```

2.4 Application Bandwidth Requirements (*Bandwidth_Requirements.gdf*)

This file contains the default bandwidth requirements and number of users for an Application (specified by the Application, Service and Functional Area).

The format for the file is tab delimited as follows:

```
# Application      Service      FunctionalArea      BwRequirements (Kbps)
      NumUsers
```

Some of the sample entries of this file are as follows:

```
# Voice FunctionalArea
Tactical Tactical Voice 10 1000
```

```

DSN    DSN Voice 16 1000
DRSN   DRSN    Voice 16 1000
Cellular Cellular Voice 5 500
Pager  Pager   Voice 32 1000
MSS    MSS Voice 32 500
# SIPRNET Service, Data FunctionalArea
Web    SIPRNET Data 1000 10
Email  SIPRNET Data 10 200
ftp    SIPRNET Data 2000 3
Netmeeting SIPRNET Data 5 10
GCCS-COP SIPRNET Data 100 20
GCCS-I3  SIPRNET Data 2000 5
GCCS-TBMCS SIPRNET Data 150 10
GCCS-TMD SIPRNET Data 300 5
GCSS    SIPRNET Data 400 10
ADOCCS SIPRNET Data 30 10
AFATDS SIPRNET Data 200 5
AMDWS   SIPRNET Data 300 10
# NIPRNET Service, Data FunctionalArea
Web    NIPRNET Data 1000 10
Email  NIPRNET Data 10 200
ftp    NIPRNET Data 300 20
Netmeeting NIPRNET Data 120 10

```

2.5 Application Conversion Defaults (ApplicationConversion.gdf)

This file is used to populate the defaults used for converting JCSS applications to IERs.

The file format and the sample entries for this file are as follows:

FunctionalArea	Service	Application	Classification	TrafficType
EquipmentType	Perishability	Priority		
Voice	Tactical	Tactical Voice	SECRET Voice Phone 120	ROUTINE
Voice	DSN	DSN UNCLASSIFIED Voice	Phone 180	ROUTINE
Voice	DRSN	DRSN SECRET Voice	Phone 180	PRIORITY
Data	SIPRNET	Web	SECRET Data Computer 120	ROUTINE
Data	SIPRNET	Email	SECRET Data Computer 120	PRIORITY
Data	SIPRNET	ftp	SECRET Data Computer 120	ROUTINE
Data	SIPRNET	NetMeeting	SECRET Data Computer 300	ROUTINE
Data	SIPRNET	GCCS-COP	SECRET Data Computer 15	IMMEDIATE
Data	GBS	GBS	SECRET Data Computer 3600	ROUTINE
Message	R-DIN	R-DIN	SECRET Data Computer 120	PRIORITY
Message	Y-DIN	Y-DIN	TOP SECRET(SI) Data Computer 30	IMMEDIATE
Message	DMS	DMS UNCLAS	UNCLASSIFIED Data Computer 300	ROUTINE

2.6 Precedence (Precedence.gdf)

This file is used to override the default precedence values in JCSS. The default values are

- ROUTINE
- PRIORITY
- IMMEDIATE
- FLASH
- FLASH OVERRIDE
- NOT KNOWN

- NOT SPECIFIED

This file is not part of a standard JCSS installation. If the user wants to override the default values, he creates this file and specifies the new values in this file. The value “NOT KNOWN” is added automatically to the user-specified list of values.

This file must be located in the <JCSS Dir>\Scenario_Builder\9.1.A\netwars\rules or the <User_Data>\Rules folder. If the file is found in both folders, the one under <User_Data>\Rules overrides the other one. The format of this file is as follows:

```
<Precedence value1>
<Precedence value2>
<Precedence value3>
.
.
<Precedence valueN>
```

If the user overrides the default values using this file, he must also change the priority code values specified in the priority_codes.cfg file (refer to Priority Codes section above).

Note: The default values are converted by the underlying JCSS models during simulation to the appropriate Quality of Service information. Currently no model support is provided in the JCSS standard models to do the same for the user-specified values. This functionality may be provided in the future releases of the software.

2.7 JNMS Models (JNMS_Model_Names.gdf)

This file contains lines of pairs of names separated by tabs. The first column is the JCSS model type, used internally by JCSS. The second column is the JNMS name, which may contain invalid characters (according to JCSS) such as ampersands, slashes, or parentheses (/&). This file is used to give JNMS the appearance of their standard device names in XML files. The file format and sample inputs are as follows:

```
# JCSS Model Name      JNMS Name
TSC-85B  AN/TSC-85B
TSC-85C  AN/TSC-85C
TSC-93B  AN/TSC-93B
TSC-93C  AN/TSC-93C
TSC-94A  AN/TSC-94A
TSC-100A AN/TSC-100A
TSC-152 with TSSP      AN/TSC-152 (with TSSP)
TSC-152 without TSSP  AN/TSC-152 (without TSSP)
TSQ-190  AN/TSQ-190
USC-59 with TSSP       AN/USC-59 (with TSSP)
USC-59 without TSSP    AN/USC-59 (without TSSP)
USC-60A with TSSP      AN/USC-60A (with TSSP)
USC-60A without TSSP   AN/USC-60A (without TSSP)
FSC-78   AN/FSC-78
```

2.8 Name Replacement (name_replace_attrs_list.gdf)

The file is divided to 2 sections identified by the keyword "NODE:" and "LINK:". The section following the keyword NODE: represents the attributes on devices that need to perform name update when an unit/device is changed. The section following the keyword LINK: represents the

attributes on devices that need to perform name update when an external/internal/radio link is changed.

Each line in the section is tab delimited into 3 columns. The first column is a required field that represents the attribute name. If the attribute name is a compound attribute, a "@" delimiter should immediately follows the compound attribute and follow by the child attribute name. The compound attribute can be a nested compound attribute as long as the "@" delimiter is inserted right after the compound attribute. The second column represents the model of the device that the attribute name appears in and the third column represents the delimiter that is expected for the attribute value. Both the second and third columns are optional.

File format and sample entries for this file is as follows:

```

NODE:
Portmap configuration@End node (1)    pro_portmap_utility
Portmap configuration@End node (2)    pro_portmap_utility
Selected path@Path                    pro_portmap_utility ,
Data_Circuits@End node (1)           MSE_Data_Circuit_Config
Data_Circuits@End node (2)           MSE_Data_Circuit_Config
Portmap configuration@End node (1)    multiplexer_utility
Protmap configuration@End node (2)    multiplexer_utility
SPVX Configuration@Source             CellXpress_PVC_Config
SPVX Configuration@Destination        CellXpress_PVC_Config
Preferred DTL Configuration.Route Configuration@Node Name ATM_SPVX_Config
Node Failure/Recovery Specification@Name    Failure Recovery
Link Failure/Recovery Specification@Name    Failure Recovery
VPN Configuration@Tunnel Source Name IP_VPN_Config
VPN Configuraiton@Tunnel Destination Name IP_VPN_Config
VPN Configuration@Remote Client List@Client Node Name IP_VPN_Config
PNNI Overload Configuration@Node Name PNNI Overload
RSVP Profiles@Reservation Parameters.Sender List.Sender QoS Attribute Config
RSVP Profiles@Retry Policy.Reservation Parameters.Sender List.Sender QoS Attribute
      Config
Broadcast Network Configuration@Name Wireless_Configuration
Wireless Link Configuration@Name Wireless_Configuration
Home Satellite
Application: Destination Preferences@Actual Name@Name

LINK:
Wireless Link Configuration@Name Wireless_Configuration
Link Failure/Recovery Specification@Name Failure Recovery
    
```

3 Simulation Related Files

The following table lists the files that are created and/or used per scenario during a JCSS simulation run.

Name	Format	Location	Remarks
<project_name>-<scenario_name>.ef	Text	\\User_Data\Projects\<Project_Name>\<Scenario_Name>	This is the environment file that is created when a simulation is run.
<project_name>-<scenario_name>.log	Text	\\User_Data\Projects\<Project_Name>\<Scenario_Name>	This is the simulation log file that logs information from a DES run.
<project_name>-<scenario_name>.seq	Binary	\\User_Data\Projects\<Project_Name>\<Scenario_Name>	This is the simulation sequence file that contains information about components of a simulation.
<project_name>-<scenario_name>.pb.m	Binary	\\User_Data\Projects\<Project_Name>\<Scenario_Name>	This file stores the probe (statistics) information for a simulation run.
<project_name>-<scenario_name>.nt.m	Binary	\\User_Data\Projects\<Project_Name>\<Scenario_Name>	This is the network model file that represents the scenario that will be used for the simulation.
<project_name>-<scenario_name>.*.i0.nt.exp,dll, lib, pdb	Binary	\\User_Data\Projects\<Project_Name>\<Scenario_Name>	These files represent the simulation shared object that is created during a simulation run.

4 Attribute Specification Files

Attribute Specification files are simple text files (.txt) used in JCSS for storing object attributes. They follow the format described in the File Package (section 2) of the Opnet Development Kit's Generic Runtime System API Reference:

Within the File package are a number of `prg_file_parse` functions, which are used to parse ASCII configuration files of the form:

```
start_<block name1>
key1:value1
key2:value2
...
end_<block_name1>
start_<block name2>
...
end_<block_name2>
```

These types of files are often used to store user preferences, and the `prg_file_parse...` functions provide routines to read and deconstruct these types of files. In general terms, the file is considered to contain a collection of named blocks (the name follows the `start_` and `end_` prefixes) and each block contains a set of entries. Each entry is of the form:

```
<key> : <value>
```

None of these files are required in order to run JCSS; instead, they are provided as a convenient way for the user to save object attributes in a human-readable format. Such files can be stored anywhere in the file system.

The attributes of one or more objects (OPFACs, links, etc) may be exported to a text file by selecting the objects and choosing *Topology > Export > Attributes for Selected Objects* from the Scenario Builder menu. The feature will prompt the user to enter a file name. Similarly, the attributes of all the objects in a scenario may be exported by choosing *Topology > Export > Attributes for All Objects*.

The generated text file will have the following format:

```
start_<object type>_std_attrs
hname:<object's hierarchical name>
...
<additional attributes will be specified here>
...
end_<object type>_std_attrs
```

Note that this file will not contain any Failure Recovery or Capacity Planning attributes for any objects. Furthermore, it will not contain the model attribute for any objects.

5 Link Specification Files

Link specification files are simple text files (.txt) used in JCSS for automatically creating links in a scenario. The files follow a tab-delimited format, detailed below, in which each line specifies a set of values necessary to create one link. A link specification file may be imported into a scenario by choosing *Topology > Import > Link Specification* from the Scenario Builder menu. The feature will prompt the user to choose a file.

Each line of a link specification file must contain seven fields containing the following data in the given order. One tab character is required between fields for separation. Specific values are required in the first two fields, but the remaining fields may have the value “AUTO”. When “AUTO” is specified for a field, the import feature will choose a default value for that field.

1. Full hierarchal name of device A
2. Full hierarchal name of device B
3. Link technology
4. Link type
5. Name of the port to be used for device A
6. Name of the port to be used for device B
7. Link bandwidth (in kbps)

Below are example lines that specify a variety of links between two devices. A complete example link specification file, named LinkImport.gdf, can be found in the JCSS\Scenario_Builder\<release>\netwars\rules directory.

```
Nw_Top.src.cisco4500 Nw_Top.dest.cisco4500 serial T1 pt_3 pt_5 1544
Nw_Top.src.cisco4500 Nw_Top.dest.cisco4500 AUTO AUTO AUTO AUTO AUTO
Nw_Top.src.cisco4500 Nw_Top.dest.cisco4500 AUTO 10BaseT AUTO AUTO AUTO
Nw_Top.src.cisco4500 Nw_Top.dest.cisco4500 ethernet AUTO AUTO AUTO AUTO
Nw_Top.src.cisco4500 Nw_Top.dest.cisco4500 AUTO AUTO eth_tx_0 eth_tx_1 AUTO
```

6 Standard OPNET Files

Standard OPNET files are any file formats which are found in other OPNET products (such as OPNET Modeler or OPNET ITGuru) and are not exclusive to the JCSS product. JCSS does support many of these file formats (such as Model Assistant - .ma files) when using certain features. For reference on how to use these files, please check the standard OPNET documentation found in JCSS under the “Help > Documentation > ITGuru Documentation” menu. In these cases, JCSS will behave similarly to the other OPNET products when using these files.

7 IER Import File Formats

JCSS allows for the user to export or import Information Exchange Requirements (IERs) from external files. There are two separate file formats which allow the user to modify IERs. In the following subsections, each file format is discussed. For more information on the actual features associated with these files, please visit the JCSS User Manual or Technical Reference Manual.

7.1 IER Reports

IER Reports allow a user to import or export all IER definitions in a given scenario. This can be accomplished through the “Traffic > IERs > Import > From IER Report...” and “Traffic > IERs > Export IER Report” menus.

The purpose of the IER Reports is to transfer IER definitions between different scenarios that contain identical topologies. Also, it allows the user to export the IER definition information, modify it in a text file format which might be easier for a user, and then re-import it into the same scenario. Finally, it provides a text based reporting mechanism for IERs.

IER Reports contain detailed information about the IERs in a scenario such as the exact OPFAC and device hierarchical names for the Producer and Consumers of the IER. It also contains the standard IER information such as Start Time, Stop Time, Priority, Type, etc.

Shown below is a partial example of the IER Report generated from the “UserGuide_CP_Scenario” project which is provided with the JCSS installation. The IER Report for a given project-scenario is exported to the project’s directory (i.e., the “<JCSS Installation Directory>\User_Data\Projects\<Project Name>” directory) and has the following name “<Project Name>-<Scenario Name>-iers.txt”. Each line specifies one IER, and each field is delimited by a tab character.

```
# Producer Consumers Name(s) ID Type Equipment
# Protocol (Applicable # for DATA IER only) Classification Priority
# Perishability (sec) Size (sec or bytes) Interarrival (sec)
# Start Time Stop Time Application Delay Tracking Export Reports
# Message
MAGTF_DATA.computer CFH_DATA_2.computer computer --> computer
  USER113 DATA Computer TCP Unclassified ROUTINE 15
  constant(50000) exponential(5) 100 END Disabled Disable
  Not Configured
MAGTF_DATA.computer JFLCC_DATA.computer computer --> computer 1
  USER116 DATA Computer TCP Unclassified ROUTINE 15
  constant(25000) exponential(30) 100 END Disabled Disable
  Not Configured
MAGTF_DATA.computer JFMCC_DATA.computer computer --> computer 2
  USER117 DATA Computer TCP Unclassified ROUTINE 15
  constant(50000) exponential(20) 100 END Disabled Disable
  Not Configured
JFMCC_DATA.OE MAGTF_DATA.OE OE --> OE USER108 DATA Computer
  TCP Unclassified ROUTINE 15 constant(1000)
  exponential(60) 100 END Disabled Disable Not Configured
```

```
JFMCC_DATA.OE      CFH_DATA_2.OE      OE --> OE 1 USER112      DATA  Computer
TCP  Unclassified  ROUTINE      15      constant(1000)
exponential(60)   100  END  Disabled  Disable  Not Configured
```

7.2 IER Text Files

IER Text Files are different from IER Reports as they contain generic IER definitions instead of scenario specific information. For instance, IER Text Files do not contain exact Producer and Consumer information so they can be mapped into any scenario even if their topologies vary. To map the information into a scenario, the "Producer Type" and "Consumer Type" tags in the text file are compared to a OPFACs "OPFAC Type" attribute in a scenario. Any two OPFACs which match the "Producer Type" or "Consumer Type" tags will automatically have an IER deployed with that particular definition. This feature should be utilized when the user has a large number of IERs (in a text file or database format) but doesn't know how they should be mapped into a particular scenario.

Currently, IER Text Files can only be imported into a scenario using the "Traffic > IERs > Import > From IER Text File..." menu. There is no export functionality in JCSS.

Shown below is an example IER Text File called "IER_Text_Sample.txt" which can be found in the "<JCSS Installation Directory>\User_Data\IER_Text_Files" directory. Each line specifies one IER, and each field is delimited by a tab character. The Description, Producer Device, and Consumer Device fields are optional.

```
# ID  Producer Type      Consumer Type      URC  Classification
# Perishability  Precedence  Type  Size  Equipment  Interarrival  Function
# Interarrival Mean  Description  Producer Device  Consumer Device
11111 DEMO1 DEMO1 00  UNCLASSIFIED      110  ROUTINE      VOICE 100  PHONE
      EXPONENTIAL 300.00      None
11112 TPAL2 TPAL2 00  UNCLASSIFIED      110  ROUTINE      VOICE 100  PHONE
      EXPONENTIAL 300.00      None
11113 TPAL2 TPAL2 00  UNCLASSIFIED      20   ROUTINE      DATA 1200
      COMPUTER  EXPONENTIAL 300.00      None
11115 CRTER CRTER 00  UNCLASSIFIED      20   ROUTINE      DATA 1200
      COMPUTER  CONSTANT 20  None
11116 POS1 POS2 0A  UNCLASSIFIED      20   ROUTINE      DATA 1200
      COMPUTER  CONSTANT 20  None
11117 POS2 POS3 A0  UNCLASSIFIED      20   ROUTINE      DATA 1200
      COMPUTER  CONSTANT 10  None
11119 DNVT5 DNVT5 00  UNCLASSIFIED      12   ROUTINE      VOICE 10  PHONE
      CONSTANT 15  None
```

8 DoDAF Supported File Formats

JCSS allows for integration with DoDAF Views and artifacts. Users are allowed to specify OV-3 and SV-6 compatible View files which can then be imported into JCSS to create IERs in a scenario. The current format of these files are comma separated .csv or .txt files. Currently, JCSS can import and/or export three different versions of these files: Generic Text File (created for JCSS), Metastorm Provision, and Telelogic System Architect. The Generic Text File schema for each supported View is shown below.

Generic Text File (OV-3):

Needline ID,Information Exchange ID,Sending Op Node Name and ID,Sending Op Node Activity Name and ID,Receiving Op Node Name and ID,Receiving Op Node Activity Name and ID,Information Element Name and ID,Content,Scope,Accuracy,Language,Mission/Scenario UJTL or METL,Transaction Type,Triggering Event,Interoperability Level Required,Criticality,Periodicity,Timeliness,Access Control,Availability,Confidentiality,Dissemination Control,Integrity,Accountability,Protection (Type Name; Duration; Date),Classification,Classification Caveat

Generic Text File (SV-6):

System Interface Name and ID,Data Exchange ID,Sending System Name and ID,Sending System Function Name and ID,Receiving System Name and ID,Receiving System Function Name and ID,Data Element Name and ID,Content,Accuracy,Format Type,Media Type,Units of Measurement,Data Standard,Transaction Type,Triggering Event,Criticality,Periodicity,Timeliness,Throughput,Size,Access Control,Availability,Confidentiality,Dissemination Control,Integrity,Non-Repudiation Producer,Non-Repudiation Consumer,Protection (Type Name; Duration; Date),Classification,Classification Caveat,Releasability,Security Standard

The Metastorm Provision schema is based on the 6.1.1 version of the software and is proprietary. The Telelogic System Architect schema is based on the 11.2 version of the software and is also proprietary. Please note that the schemas for both Metastorm Provision and Telelogic System Architect are not shown in this document. Refer to the software documentation of these products for the correct format of those files.

9 Circuit File Formats

This section discusses the files which can be used for the circuit related features in JCSS. These features include the Generic Circuit Wizard and Circuit Import/Export functionality.

9.1 Circuit Import/Export Text File

The Circuit Import/Export feature allows information for all circuits in a scenario to be transferred to and from a text file, which may be edited with an external program such as Microsoft Excel or compiled from other data sources such as a Network Circuit Report. The format and use of the circuit text file is influenced by the circuit description XML file provided for each type of circuit modeled in JCSS (as explained in the next section).

A circuit text file contains one text line for each circuit in the scenario. Each line contains data for the circuit in tab-delimited fields. As detailed below, the fields present in a data line vary for each type of circuit. For example, the fields exported for a Promina circuit differ from the fields exported for a TSSP circuit. This is because each circuit “type” has different attributes which are needed by the device models to simulate the circuit technology. For this reason, circuits in the text file are grouped by type. Each group begins with a line that contains the special value *circuit_type* in its first field and names the type of circuit for the group in its second field. Immediately after the *circuit_type* line, one or more individual circuit definitions (i.e., circuit data lines) are given for that particular circuit type.

All circuit data lines in the text file begin with the mandatory fields: *A and B device names*, *A and B port names*, and *circuit name*. The device name fields contain JCSS hierarchical names for devices in the scenario. Values for the port name fields will vary depending on the ports that are defined in the circuit device models. The circuit name is used to correlate the data line in the text file to a circuit object in the scenario. Additional optional attribute fields, such as *deMUX Group* for mux circuits, follow these initial mandatory fields and are based on the information found inside circuit description XML files (discussed further in the next section).

Note that comments may appear in the text file and must begin with a ‘#’ character. Blank lines are allowed.

The example circuit file shown below defines Multiplexer (Mux), Promina, and TSSP circuits for a given JCSS scenario.

	A	B	C	D	E	F	
1	#Circuit export file for JCSS_Capacity_Planning-Capacity_Planning						
2	#This file is tab-delimited and contains a separate section for each file type.						
3							
4	circuit_type	mux					
5	#Device A	Device B	Port A	Port B	Name	deMUX Group	
6	Nw_Top.NCTAMSPAC_Far_East.NCTAMSPAC_Trans	Nw_Top.NAVFOR.NAVFOR_Transmission.FCC_100v9	input_pt_0	input_pt_0	CCMBAABP	DEMUX Group 0	
7	Nw_Top.NCTAMSPAC_Far_East.NCTAMSPAC_Trans	Nw_Top.NAVFOR.NAVFOR_Transmission.FCC_100v9	input_pt_1	input_pt_1	CCMBAABQ	DEMUX Group 0	
8	Nw_Top.NCTAMSPAC_Far_East.NCTAMSPAC_Trans	Nw_Top.NAVFOR.NAVFOR_Transmission.FCC_100v9	input_pt_2	input_pt_2	CCMBAABR	DEMUX Group 0	
9							
10	circuit_type	Promina					
11	#Device A	Device B	Port A	Port B	Name	Circuit Speed	Cal
12	Nw_Top.ARFOR.ARFOR_Transmission.Promina-800	Nw_Top.JTF_HQ.JTF.Promina-800	l_pt_0	l_pt_0	Promina-800 - F	256	
13	Nw_Top.ARFOR.ARFOR_Transmission.Promina-800	Nw_Top.CAMP_HUMPHREYS.CAMP_HUMPHREYS	l_pt_1	l_pt_1	Promina-800 - F	576	
14	Nw_Top.AFFOR.AFFOR_Transmission.Promina-800	Nw_Top.JTF_HQ.JTF.Promina-800	l_pt_1	l_pt_1	Promina-800 - F	384	
15	Nw_Top.AFFOR.AFFOR_Transmission.Promina-800	Nw_Top.MARFOR.MARFOR_Transmission.Promina-800	l_pt_0	l_pt_0	Promina-800 - F	512	
16	Nw_Top.AFFOR.AFFOR_Transmission.Promina-800	Nw_Top.CAMP_HUMPHREYS.CAMP_HUMPHREYS	l_pt_2	l_pt_0	Promina-800 - F	512	
17	Nw_Top.MARFOR.MARFOR_Transmission.Promina-800	Nw_Top.JTF_HQ.JTF.Promina-800_1	l_pt_1	l_pt_0	Promina-800 - F	256	
18	Nw_Top.NCTAMSPAC_Far_East.NCTAMSPAC_Trans	Nw_Top.JSOTF.JSOTF_Transmission.Promina-800	l_pt_0	l_pt_0	Promina-800 - F	576	
19	Nw_Top.CAMP_BUTLER.CAMP_BUTLER_Transmission	Nw_Top.JTF_HQ.JTF.Promina-800_1	l_pt_0	l_pt_1	IDNX-90 - Promi	512	
20	Nw_Top.JSOTF.JSOTF_Transmission.Promina-800	Nw_Top.JTF_HQ.JTF.Promina-800	l_pt_1	l_pt_2	Promina-800 - F	512	
21	Nw_Top.JTF_HQ.JTF.Promina-800	Nw_Top.JTF_HQ.JTF.Promina-800_1	l_pt_3	l_pt_2	Promina-800 - F	7,999	
22							
23	circuit_type	tssp					
24	#Device A	Device B	Port A	Port B	Name	device_a::deMUX	dev
25	Nw_Top.JSOTF.JSOTF_Transmission.TSC-93-CwTSS	Nw_Top.NCTAMSPAC_Far_East.NCTAMSPAC_Trans	input_pt_0	input_pt_0	CCMBAAB3	DEMUX Group 1	DEI
26	Nw_Top.MARFOR.MARFOR_Transmission.TSC-93-BwTSS	Nw_Top.JTF_HQ.JTF.TSC-85-BwTSSP	input_pt_0	input_pt_2	CCMBAAB1	DEMUX Group 0	DEI
27	Nw_Top.ARFOR.ARFOR_Transmission.TSC-85-BwTS	Nw_Top.CAMP_HUMPHREYS.CAMP_HUMPHREYS	input_pt_0	input_pt_0	CCMBAABX	DEMUX Group 0	DEI
28	Nw_Top.ARFOR.ARFOR_Transmission.TSC-85-BwTS	Nw_Top.JTF_HQ.JTF.TSC-85-BwTSSP	input_pt_1	input_pt_0	CCMBAABZ	DEMUX Group 1	DEI
29	Nw_Top.CAMP_HUMPHREYS.CAMP_HUMPHREYS	Nw_Top.AFFOR.AFFOR_Transmission.TSC-152wTSSP	input_pt_1	input_pt_0	CCMBAABY	DEMUX Group 1	DEI
30	Nw_Top.AFFOR.AFFOR_Transmission.TSC-100-AwTSS	Nw_Top.JTF_HQ.JTF.TSC-85-BwTSSP	input_pt_0	input_pt_1	CCMBAAB0	DEMUX Group 0	DEI
31	Nw_Top.CAMP_BUTLER.CAMP_BUTLER_Transmission	Nw_Top.JTF_HQ.JTF.USC-60-AwTSSP	input_pt_0	input_pt_0	CCMBAAB2	DEMUX Group 0	DEI
32	Nw_Top.NAVFOR.NAVFOR_Transmission.WSC-6-v5-Nw_Top.NCTAMSPAC_Far_East.NCTAMSPAC_Trans		input_pt_0	input_pt_0	CCMBAAB4	DEMUX Group 0	DEI

Figure 1 Circuit Text File Example

The following three figures show the complete fields for the first three Promina circuits in the example file shown above.

#Device A	Device B
Nw_Top.ARFOR.ARFOR_Transmission.Promina-800	Nw_Top.JTF_HQ.JTF.Promina-800
Nw_Top.ARFOR.ARFOR_Transmission.Promina-800	Nw_Top.CAMP_HUMPHREYS.CAMP_HUMPHREYS_Transmission.Promina-800
Nw_Top.AFFOR.AFFOR_Transmission.Promina-800	Nw_Top.JTF_HQ.JTF.Promina-800

Figure 2 Circuit Text File Example, Detail 1

Port A	Port B	Name	Circuit Speed	Call priority	Preempt priority
l_pt_0	l_pt_0	Promina-800 - Promina-800	256	7	0
l_pt_1	l_pt_1	Promina-800 - Promina-800 1	576	7	0
l_pt_1	l_pt_1	Promina-800 - Promina-800 2	384	7	0

Figure 3 Circuit Text File Example, Detail 2

Terrestrial routing	Encryption routing	Fiber routing	Call type	Direction
Do not care	Do not care	Do not care	Permanent	Dual
Do not care	Do not care	Do not care	Permanent	Dual
Do not care	Do not care	Do not care	Permanent	Dual

Figure 4 Circuit Text File Example, Detail 3

9.2 Circuit Description XML File

The fields for each circuit type are determined by its circuit description XML file. Each circuit type that is provided in JCSS has a corresponding description file. The purpose of the XML file is to allow a user to easily create new custom circuit types using the same framework as the standard JCSS circuits. This means that features such as Capacity Planning, Generic Circuit Wizard, and Circuit Import/Export, which work directly with the XML files, can support new custom circuit types automatically if a description file is provided for that circuit type.

A circuit description XML file declares the names, data types and validation criteria for all attributes of a circuit type that will be supported by the import/export feature. The circuit model may define additional attributes, but those additional attributes will not be exported to the circuit text file and will not be modified during an import.

```

- <Double>
  <Name>Circuit Speed</Name>
  <DefaultValue>Auto-Sense</DefaultValue>
  <Units>Kbps</Units>
- <AcceptedValues Open="true">
  <Value>64.0</Value>
  <Value>128.0</Value>
  <Value>256.0</Value>
  <Value>512.0</Value>
  <Value>1024.0</Value>
  <Value>Auto-Sense</Value>
</AcceptedValues>
</Double>
- <Integer>
  <Name>Call priority</Name>
  <DefaultValue>7</DefaultValue>
  <LowerBound>0</LowerBound>
  <UpperBound>15</UpperBound>
</Integer>
- <Integer>
  <Name>Preempt priority</Name>
  <DefaultValue>0</DefaultValue>
  <LowerBound>0</LowerBound>
  <UpperBound>15</UpperBound>
</Integer>
- <String>
  <Name>Terrestrial routing</Name>
  <DefaultValue>Do not care</DefaultValue>
- <AcceptedValues>
  <Value>Do not care</Value>
  <Value>Prefer not</Value>
  <Value>Prefer</Value>
  <Value>Required</Value>
</AcceptedValues>
</String>

```

Figure 5 Promina Circuit Description Attributes Example

The above figure shows the first four attributes declared for Promina circuits in its description file. Each attribute is represented by an element that names its data type, e.g. *Double* or *String*. That element contains subelements providing the name and default value for the attribute. The *LowerBound*, *UpperBound* and *AcceptedValues* elements are used by the circuit import to validate the values in the text file. Upper and lower bounds may be provided for numeric data types. Values outside those bounds will be rejected during import. *AcceptedValues* may be provided for all data types. By default, a list of accepted values is “closed”, meaning that only the listed values are valid and all other values will be rejected. However, if the *Open* property is given the value *true*, as it is for the *Circuit Speed* attribute above, the listed values are treated as recommendations only and all values are accepted for that attribute.

10 JCSS Library Additions

10.1 Naming Conventions

The naming conventions for the five data types, Organizations, OPFACs, IERs, Communication Device Models and Scenarios, is described in the following five sections. These naming conventions will provide configuration management and users with additional trace-ability of the original data source.

10.1.1 Organizations Naming Convention

Organizations should be named as *<Service>_<Organization Name>_<Organization Function>*. *Organization Function* can also be communication function or military function. CENTCOM_ARFOR_CU, CENTCOM_ARFOR_HQ are two examples of organizations following this naming convention.

10.1.2 OPFACs Naming Convention

OPFACs should be named as *<Organization Function>_<OPFAC Function>_[Device Description]*, where *Device Description* is optional. CU_SATCOM, CU_TX_PROMINA, HQ_ATM_CLOUD are three examples of OPFACs that follow this naming convention.

10.1.3 IER Naming Convention

IERs by default will be given a name based on the demand object that represents them. This is performed through the following notation: *<Source Device Name> → <Destination Device Name>*. However, the user can choose any name they prefer using the IER Wizard.

10.1.4 Device Models Naming Convention

Device Models should be named as *<Organization>_<Date>_<Vendor>_<Config>_<Version>*. An example device model is SPAWARCHS_20030801_CISCO_2510_v1.

10.1.5 Scenarios Naming Convention

Projects should be named as *<Name of Operation>* and scenarios (time phases/course of actions) should be named as *<Scenario Excursion>*. In JCSS, a project can contain more than one scenario/phase. An example of a JCSS project and three scenarios is project name Operation_Iraqi_Freedom and scenarios are Baseline, Network_Enhancement, New_Application.

10.1.6 Organization and OPFAC Templates

In addition to the preceding naming conventions, the software will provide additional name scoping for the models produced via template OPFACs and organizations. On disk, an OPFAC is stored as: *opfac_<OPFAC type>.nd.m (2004-1)* and *opfac_<OPFAC type>.nt.m (2004-2)*. On disk, an organization will be stored as: *org_<Org Name>.nd.m (2004-1)* and *org_<Org Name>.nt.m (2004-2)*. These prefixes make it possible to distinguish between OPFACs,

organizations, scenarios, and device models by file name alone. In general, JCSS users will not need to know these details, but they help to ensure system stability.

10.2 IER Message Field

The IER Message field provides a mechanism for model developers to allow users to trigger special behavior for IERs during simulation. The user may specify an arbitrary value in the IER Message field in the Scenario Builder. During simulation, models may access the Message value and perform special actions depending on that value.

11 JCSS XML Schema

11.1 Purpose of the JCSS XML Schema

The JCSS Extensible Markup Language (XML) Schema provides a detailed definition of all data that may be imported to or exported from the JCSS Toolkit. By providing this definition, the schema helps create an interface between the Toolkit and other projects and individuals that want to share information with the Toolkit. The schema defines the data by specifying an exact format for XML documents. Any XML document matching this format will be accepted by the Toolkit, and conversely, any XML document created by the Toolkit will match the format. In this way, the schema ensures that data crossing the interface is understandable to both sides.

The vision of XML in JCSS is to enable the Next Generation of JCSS as a Web Service. JCSS is to have a complete and stable XML schema for all input and output as an enabling technology for JCSS Network Centric (NETCENTRIC) and Web Services. Web Services will be based on industry standards building upon XML: Simple Object Access Protocol (SOAP), Web Services Description Language (WSDL), Universal Description, Discovery & Integration (UDDI); plus perhaps Web Services Interoperability (WS-I) profiles and emerging standards in the area such as Web Service security and workflow control.

The introduction of the JCSS XML Schema was prompted by several factors. Many users of JCSS have extensive data collections that could be used to feed the construction of OPFACs, scenarios, etc. However, previously published JCSS data formats, such as those in the Scenario Definition File (SDF) and Platform DEFinition (PDEF), are not fully documented and can be difficult to work with. In addition, these previous data formats are often used only for import or export of data, but not both. For example, SDFs are created by the Scenario Builder, but cannot be read by it.

The schema addresses each of these factors. The schema is designed to define fully the data that is relevant to the JCSS Toolkit, providing users with a guide for pulling data from their existing data collections. At the same time, the schema identifies optional data and defines default values, allowing users to load partial data into the Toolkit without needing to produce unknown data. In addition, by providing detailed data definitions, which include data types and value restrictions, the schema itself is documentation for the data format. Additional documentation giving context to the data is also embedded in the schema document. Finally, both import and export of data defined by the schema is supported.

In addition, the schema has other benefits when compared with the previous formats. The schema defines a single, integrated format, encouraging greater consistency in the data definitions than is present in the separate SDF and PDEF formats. XML documents conforming to the schema are more verbose than the previous data formats, making them more understandable to human users. The use of XML also allows common XML tools to be applied to the data. XML editors and processors can be used by either the Toolkit or the user to manipulate the data before or after it is exchanged. One such use is “validation”. A validation engine can automatically compare any XML document to the JCSS schema to determine if it matches the specified format.

11.2 Implications for Developers

The introduction of the JCSS XML Schema will initially affect developers who wish to load existing data collections into the JCSS Toolkit. Model developers will also be affected by the eventual replacement of SDFs with XML documents.

Data loading via XML will be supported in the Toolkit. Its initial capabilities include the import and export of groups of OPFAC templates and of individual scenarios. A primary feature of the schema, with regard to data interoperability, is the continuing integration of the schema with the All DoD Core Architecture Data Model (ALL_CADM), which is currently used by many networking projects. The use of this data model helps establish a common set of elements between the JCSS schema and other data sources that use the ALL_CADM, allowing the two to be interfaced more easily.

The replacement of the SDF by an XML document will not have a significant impact on the development of individual device models. The SDF is accessed only through an API defined in the simulation domain. This API will be modified to access the XML document but will still return data to the model that is consistent with its previous operation. Minor changes to the API will be made in concert with the conversion to XML.

11.3 Overview of the Schema

The JCSS XML Schema uses the WWW Consortium Schema language to specify simple and complex data elements, as well as attributes modifying those elements. The primary elements defined in the schema correspond to the primary data objects used in the JCSS Toolkit: scenarios, organizations, and OPFACs. The complete schema and example XML documents specifying OPFACs are included as addendums to this document, since they are too large to include directly.

Each primary element is defined as a complex structure containing a number of other elements. The sub-elements may contain simple data, such as a string or number, or may be complex structures containing further elements. (Documentation of the schema is included as an appendix to this document, and includes illustrations showing the structure of the OPFAC and other elements.) The primary element, ‘opfac’, contains sub-elements, such as ‘startTime’ and ‘stopTime’. The elements fall into two distinct categories, depending on the source of the data definition. Elements without a prefix or with the prefix ‘nw’ are custom elements defined by JCSS. Elements with the prefix ‘CADM’ are defined in the schema produced as part of the ALL_CADM specification. (These prefixes are derived from the “namespace” of each schema.) The texts beneath many of the elements are additional documentation embedded in the schema that provides contextual information about the element or notes special features of the schema.

11.4 JCSS XML Schema Changes

11.4.1 Changes made to the schema in 2009 (JCSS 9.0)

The IER and Thread portions of the XML schema were removed due to the use of IER Demand objects. The user should now utilize the Demand (Flow) portions of the XML to achieve the same functionality.

11.4.2 Changes made to the schema in 2007

The name, 'NETWARS_2007_2007_01_26.xsd', and namespace, 'http://www.jcss.disa.mil/2007/2007.01.26/JCSS', of the XML schema was changed in JCSS 2007.

The portList element for devices was removed and references to ports in other elements were changed from ID references to strings.

The definition of the satelliteLink/datarate element was corrected to specify its type as a numeric double.

11.4.3 Changes made to the schema in 2006-2

The name, 'NETWARS_2006_2_2006_09_05.xsd', and namespace, 'http://www.netwars.disa.mil/2006-2/2006.09.05/NETWARS', of the XML schema was changed in NETWARS 2006-2.

The optional ier/messageType element was added to the schema.

11.4.3.1 Wired links

The following changes were made to accommodate the combination of the external and internal link classes into a single wired link class in the Scenario Builder.

1. The internalLink element was removed.
2. The following elements were renamed:

Old Name	New Name
externalLink	wiredLink
scenario/externalLinkList	scenario/wiredLinkList
scenario/externalLinkList/externalLink	scenario/wiredLinkList/wiredLink
organization/externalLinkList	organization/wiredLinkList
organization/externalLinkList/externalLink	organization/wiredLinkList/wiredLink
opfac/internalLinkList	opfac/wiredLinkList
opfac/internalLinkList/internalLink	opfac/wiredLinkList/wiredLink

3. References to nw:internalLink and nw:externalLink were replaced with nw:wiredLink in the definitions of these keys:
 - a. keyGlobalIdsInScenarios
 - b. keyGlobalIdsInOrganizationTemplate
 - c. keyGlobalIdsInOpfacTemplate

4. The constraint uniqueExternalLinkEndpoints was renamed to uniqueWiredLinkEndpoints, and it now constrains only device references in the wiredLink, not unit and device references.

11.4.4 Changes made to the schema in 2006-1

Only minor changes were made to the XML schema in NETWARS 2006-1, and the schema file carries the same name, 'NETWARS_2005_2_2005_11_10.xsd', and namespace, 'http://www.netwars.disa.mil/2005-2/2005.11.10/NETWARS', as in NETWARS 2005-2.

The following elements were made optional in the 2006-1 release. Since each of these elements existed in the 2005-2 schema, any XML file that was valid for 2005-2 is also valid for 2006-1.

Element	Subelement
scenarioProperties	OPSITName
opfac	CADM:ORGT_NM
externalLink	classification
	bandwidth
	reverseBandwidth
	voiceChannelRate
	voiceChannelNumber
internalLink	datarate
radioLink	classification
	bandwidth
	voiceChannelRate
	voiceChannelNumber
satelliteTsspLink	classification
	aUplinkBandwidth
	aDownlinkBandwidth
	bUplinkBandwidth
	bDownlinkBandwidth
planningLink	classification
	forwardBandwidth
	reverseBandwidth

11.5 Current XML Schema

11.5.1 XML Schema Documentation

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

JCSS is oriented around OPFACs, organizations, and scenarios. Valid documents include individual scenarios and lists of template OPFACs or template organizations, which may be batch-loaded into JCSS. This schema is primarily composed of elements and data types supporting the three main documents. All JCSS-specific elements and data types are placed in the main JCSS namespace, which is abbreviated as "nw" in this document. No namespace is declared for the CADM elements in their own document, but within the JCSS schema, all CADM elements have been coerced into a namespace. This CADM namespace is similar to the JCSS namespace and is abbreviated as "CADM" in this document. Any element within the JCSS schema that has the "CADM" prefix is identical to the CADM element defined by IDA. The 'key' and 'keyref' elements defined below in many elements enforce constraints on sub-elements that help ensure that those sub-elements correctly reference each other, but these constraints cannot absolutely ensure that the references are legal within the Scenario Builder. Also, note that the 'scenario', 'organization', and 'organizationTemplate' elements specify similar keys and references. If changes to the keys are needed in one of these elements, they are probably also needed in the others. (The elements cannot share the key definitions.)

For more information on the XML schema, the user should view the related XSD files located in the "<JCSS Installation Directory>\Scenario_Builder\XX.X.X\netwars\rules" directory of a JCSS installation.

11.5.1.1 (element)scenario

documentation This element specifies a single scenario, which contains units (OPFACs and organizations) along with physical and abstract associations between those units (links, networks, and relationships). It supports all data that is stored in the network model file that is produced by the Scenario Builder.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nilable false

11.5.1.2 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
base type definition ur-type definition
derivation method restriction
abstract false
attributes none
content (sequence)

- (element)nw:scenarioProperties
- (group)nw:groupOrganizationContainment
- (element){0,1} flowList
- (element){0,1} connectionList
- (element){0,1} pathList

11.5.1.3 (element)flowList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeFlowList

11.5.1.4 (element)connectionList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeConnectionList

11.5.1.5 (element)pathList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typePathList

11.5.1.6 (element)scenarioProperties

documentation This element contains properties that affect the scenario as a whole. The properties may specify processing constraints or may contain data shared by the other elements of the scenario.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.7 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

- (element)name
- (element){0,1} OPSITName
- (element)creation
- (element){0,1} documentation
- (element){0,1} displayOptions
- (element){0,1} ierImportOptions
- (element){0,1} profileList

content

11.5.1.8 (element)name

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.9 (element)OPSITName

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.10 (element)creation

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:dateTime

11.5.1.11 (element)documentation

documentation This element contains a manually-entered textual description of the scenario.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.12 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none
(sequence)

content

- (element){1,unbounded} line

11.5.1.13 (element)line

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:string

11.5.1.14 (element)displayOptions

documentation This element contains options controlling the display of objects.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.15 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none
(sequence)

content

- (element){0,1} showRelationships
- (element){0,1} showLinks
- (element){0,1} showSatelliteLinks
- (element){0,1} showNetworks

11.5.1.16 (element)showRelationships

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false
nillable false
default value true
type definition xs:boolean

11.5.1.17 (element)showLinks

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
default value true
type definition xs:boolean

11.5.1.18 (element)showSatelliteLinks

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
default value true
type definition xs:boolean

11.5.1.19 (element)showNetworks

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
default value true
type definition xs:boolean

11.5.1.20 (element)ierImportOptions

This element contains options controlling the import of IERs. Three IER sources are considered: databases, IER text files, and demand text files. Each source can be individually enabled, and the IERs that are retrieved from each source may be optionally pre-set to generate background traffic. Additionally, a specific database may be specified as an IER source. Finally, the use of implicit relationships and IERs may be enabled. Enabling implicit relationships may result in additional IERs being retrieved from databases and IER text files.

documentation

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false

11.5.1.21 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none
(sequence)

- content**
- (element){0,1} useImplicit
 - (element){0,1} text
 - (element){0,1} database

11.5.1.22 (element)useImplicit

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:boolean

11.5.1.23 (element)text

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeIerSourceOptions

11.5.1.24 (element)database

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.25 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition nw:typeIerSourceOptions

derivation method extension

abstract false

attributes none

content as nw:typeIerSourceOptionsplus

11.5.1.26 (element)selection**target namespace** <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>**abstract** false**nillable** false**11.5.1.27 (complex type)****target namespace** <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>**base type definition** ur-type definition**derivation method** restriction**abstract** false**attributes** none

(sequence)

content

- (element)serverName
- (element)databaseName

11.5.1.28 (element)serverName**target namespace** <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>**abstract** false**nillable** false**type definition** xs:string**11.5.1.29 (element)databaseName****target namespace** <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>**abstract** false**nillable** false**type definition** xs:string**11.5.1.30 (element)profileList****target namespace** <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>**abstract** false**nillable** false**type definition** nw:typeProfileList**11.5.1.31 (complex type)typeIerSourceOptions****target namespace** <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>**base type definition** ur-type definition**derivation method** restriction

abstract	false
attributes	none (sequence)
content	<ul style="list-style-type: none"> • (element){0,1} import • (element){0,1} background

11.5.1.32 (element)import

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract	false
nillable	false
type definition	xs:boolean

11.5.1.33 (element)background

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract	false
nillable	false
type definition	xs:boolean

11.5.1.34 (element)organizationTemplateList

documentation This element contains a list of template organizations that may be loaded into the JCSS Toolkit for use in constructing scenarios.

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract	false
nillable	false

11.5.1.35 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method	restriction
abstract	false
attributes	none (sequence)
content	<ul style="list-style-type: none"> • (element){0,unbounded} nw:organizationTemplate

11.5.1.36 (element)organizationTemplate

documentation This element defines a template organization element with constraints similar to

the constraints in the 'scenario' element. It is the "root" of the template organization and is only used as an immediate child of the 'organizationGroup' element.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false

11.5.1.37 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition ur-type definition
derivation method restriction
abstract false
attributes none
 (sequence)
 • (group)nw:groupOrganizationData
content
 • (element){0,1} profileList
 • (element){0,1} attributeList
 • (group)nw:groupOrganizationContainment

11.5.1.38 (element)profileList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
type definition nw:typeProfileList

11.5.1.39 (element)attributeList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
type definition nw:typeAttributeList

11.5.1.40 (element)organization

documentation This element defines an organization that is a sub-element of a scenario or organization template. Most key constraints, such as those for association references, are global to the scenario or organization template, and so are not appropriate in this element.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nilable false

11.5.1.41 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition ur-type definition

derivation method restriction

abstract false

attributes

- JNMSExport = true

(sequence)

- (group)nw:groupOrganizationData
- (choice){0,1}
 - (element)nw:unitLocation

content

- (element)nw:trajectory
- (element){0,1} nw:JNMSData
- (element){0,1} attributeList
- (group)nw:groupOrganizationContainment

11.5.1.42 (element)attributeList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nilable false

type definition nw:typeAttributeList
 documentation

This group is used by both the organization and organizationTemplate elements to avoid redundancy. It contains the data elements specific to organizations.

11.5.1.43 (element)orgModel

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nilable false

type definition xs:string

11.5.1.44 (element)orgType**target namespace** http://www.jcss.disa.mil/2007/2007.01.26/JCSS**abstract** false**nillable** false**type definition** xs:string**11.5.1.45 (element)typeName****target namespace** http://www.jcss.disa.mil/2007/2007.01.26/JCSS**abstract** false**nillable** false**type definition** xs:string**11.5.1.46 (element)sourceRelationshipCode****target namespace** http://www.jcss.disa.mil/2007/2007.01.26/JCSS**abstract** false**nillable** false**type definition** xs:string**11.5.1.47 (element)echelonSize****target namespace** http://www.jcss.disa.mil/2007/2007.01.26/JCSS**abstract** false**nillable** false**type definition** xs:integer**11.5.1.48 (element)offset****target namespace** http://www.jcss.disa.mil/2007/2007.01.26/JCSS**abstract** false**nillable** false**type definition** xs:double**11.5.1.49 (element)tasks****target namespace** http://www.jcss.disa.mil/2007/2007.01.26/JCSS**abstract** false**nillable** false**type definition** nw:typeUnitTasks

documentation

This group is used by both the organization and scenario elements to avoid redundancy. It contains the elements that specify which other elements are contained within the organization or scenario.

11.5.1.50 (element)opfacList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.51 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

content

- (element){1,unbounded} nw:opfac

11.5.1.52 (element)organizationList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.53 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

content

- (element){1,unbounded} nw:organization

11.5.1.54 (element)wiredLinkList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.55 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false
attributes none
 (sequence)
content

- (element){1,unbounded} nw:wiredLink

11.5.1.56 (element)radioLinkList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false

11.5.1.57 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false
attributes none

(sequence)
content

- (element){1,unbounded} nw:radioLink

11.5.1.58 (element)satelliteTsspLinkList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false

11.5.1.59 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false
attributes none

(sequence)
content

- (element){1,unbounded} nw:satelliteTsspLink

11.5.1.60 (element)planningLinkList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false

11.5.1.61 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

content

- (element){1,unbounded} nw:planningLink

11.5.1.62 (element)broadcastNetworkList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.63 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

content

- (element){1,unbounded} nw:broadcastNetwork

11.5.1.64 (element)satelliteLinkList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.65 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

content

- (element){1,unbounded} nw:satelliteLink

11.5.1.66 (element)relationshipList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.67 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

content

- (element){1,unbounded} nw:relationship

11.5.1.68 (element)annotationList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeAnnotationList

11.5.1.69 (element)wiredLink

documentation This element describes a point-to-point link and includes references to the units that are the endpoints of the link.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.70 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes

- JNMSExport = true

(sequence)

content

- (element)id

- (element)name
- (element)model
- (element){0,1} classification
- (element){0,1} bandwidth
- (element){0,1} reverseBandwidth
- (element){0,1} voiceChannelRate
- (element){0,1} voiceChannelNumber
- (element){0,1} optimizationAttributes
- (element)endpointA
- (element)endpointB
- (element){0,1} bendpointList
- (element){0,1} attributeList

11.5.1.71 (element)id

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeId

11.5.1.72 (element)name

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:string

11.5.1.73 (element)model

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:string

11.5.1.74 (element)classification

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false
nillable false
type definition nw:typeClassification

11.5.1.75 (element)bandwidth

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
type definition xs:double

11.5.1.76 (element)reverseBandwidth

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
type definition xs:double

11.5.1.77 (element)voiceChannelRate

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
type definition xs:double

11.5.1.78 (element)voiceChannelNumber

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
type definition xs:nonNegativeInteger

11.5.1.79 (element)optimizationAttributes

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
type definition nw:typeOptimizationAttributes

11.5.1.80 (element)endpointA

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false

type definition nw:typeDeviceConnection

11.5.1.81 (element)endpointB

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeDeviceConnection

11.5.1.82 (element)bendpointList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeBendpointList

11.5.1.83 (element)attributeList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeAttributeList

11.5.1.84 (element)radioLink

documentation This element describes a radio link and includes references to the units that are the endpoints of the link.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.85 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes

- JNMSExport = true

(sequence)

content

- (element)id
- (element)name

- (element)model
- (element){0,1} classification
- (element)frequency
- (element){0,1} bandwidth
- (element){0,1} voiceChannelRate
- (element){0,1} voiceChannelNumber
- (element){0,1} optimizationAttributes
- (element)endpointA
- (element)endpointB
- (element){0,1} bendpointList
- (element){0,1} attributeList

11.5.1.86 (element)id

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeId

11.5.1.87 (element)name

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:string

11.5.1.88 (element)model

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:string

11.5.1.89 (element)classification

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeClassification

11.5.1.90 (element)frequency

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:double

11.5.1.91 (element)bandwidth

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:double

11.5.1.92 (element)voiceChannelRate

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:double

11.5.1.93 (element)voiceChannelNumber

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:nonNegativeInteger

11.5.1.94 (element)optimizationAttributes

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeOptimizationAttributes

11.5.1.95 (element)endpointA

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeDeviceConnection

11.5.1.96 (element)endpointB

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeDeviceConnection

11.5.1.97 (element)bendpointList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeBendpointList

11.5.1.98 (element)attributeList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeAttributeList

11.5.1.99 (element)satelliteTsspLink

documentation This element describes a TSSP satellite link and includes references to the endpoint units of the link.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.100 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes

- JNMSExport = true

(sequence)

content

- (element)id
- (element)name
- (element)model

- (element){0,1} classification
- (element)homeSatellite
- (element)aUplinkChannelIndex
- (element)aUplinkFrequency
- (element)aUplinkDataRate
- (element){0,1} aUplinkBandwidth
- (element)aDownlinkChannelIndex
- (element)aDownlinkFrequency
- (element)aDownlinkDataRate
- (element){0,1} aDownlinkBandwidth
- (element)bUplinkChannelIndex
- (element)bUplinkFrequency
- (element)bUplinkDataRate
- (element){0,1} bUplinkBandwidth
- (element)bDownlinkChannelIndex
- (element)bDownlinkFrequency
- (element)bDownlinkDataRate
- (element){0,1} bDownlinkBandwidth
- (element){0,1} optimizationAttributes
- (element)endpointA
- (element)endpointB
- (element){0,1} bendpointList
- (element){0,1} attributeList

11.5.1.101 (element)id

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeId

11.5.1.102 (element)name

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.103 (element)model

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.104 (element)classification

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeClassification

11.5.1.105 (element)homeSatellite

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeDeviceConnection

11.5.1.106 (element)aUplinkChannelIndex

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:integer

11.5.1.107 (element)aUplinkFrequency

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:double

11.5.1.108 (element)aUplinkDataRate**target namespace** <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>**abstract** false**nillable** false**type definition** xs:double**11.5.1.109 (element)aUplinkBandwidth****target namespace** <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>**abstract** false**nillable** false**type definition** xs:double**11.5.1.110 (element)aDownlinkChannelIndex****target namespace** <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>**abstract** false**nillable** false**type definition** xs:integer**11.5.1.111 (element)aDownlinkFrequency****target namespace** <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>**abstract** false**nillable** false**type definition** xs:double**11.5.1.112 (element)aDownlinkDataRate****target namespace** <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>**abstract** false**nillable** false**type definition** xs:double**11.5.1.113 (element)aDownlinkBandwidth****target namespace** <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>**abstract** false**nillable** false**type definition** xs:double**11.5.1.114 (element)bUplinkChannelIndex****target namespace** <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false
nillable false
type definition xs:integer

11.5.1.115 (element)bUplinkFrequency

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false
type definition xs:double

11.5.1.116 (element)bUplinkDataRate

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false
type definition xs:double

11.5.1.117 (element)bUplinkBandwidth

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false
type definition xs:double

11.5.1.118 (element)bDownlinkChannelIndex

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false
type definition xs:integer

11.5.1.119 (element)bDownlinkFrequency

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false
type definition xs:double

11.5.1.120 (element)bDownlinkDataRate

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false

type definition xs:double

11.5.1.121 (element)bDownlinkBandwidth

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:double

11.5.1.122 (element)optimizationAttributes

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeOptimizationAttributes

11.5.1.123 (element)endpointA

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeDeviceConnection

11.5.1.124 (element)endpointB

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeDeviceConnection

11.5.1.125 (element)bendpointList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeBendpointList

11.5.1.126 (element)attributeList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeAttributeList

11.5.1.127 (element)planningLink

documentation This element describes a planning link and includes references to the units that are the endpoints of the link.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nillable false

11.5.1.128 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
base type definition ur-type definition
derivation method restriction

abstract false

attributes

- JNMSExport = true

(sequence)

- (element)id
- (element)name
- (element)mediaType
- (element)nw:functionalArea
- (element){0,1} classification

- content**
- (element){0,1} forwardBandwidth
 - (element){0,1} reverseBandwidth
 - (element)anticipatedLinkSize
 - (element)endpointA
 - (element)endpointB
 - (element){0,1} bendpointList
 - (element){0,1} attributeList

11.5.1.129 (element)id

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false
nillable false

type definition nw:typeId

11.5.1.130 (element)name

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.131 (element)mediaType

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.132 (element)classification

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeClassification

11.5.1.133 (element)forwardBandwidth

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:double

11.5.1.134 (element)reverseBandwidth

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:double

11.5.1.135 (element)anticipatedLinkSize

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:double

11.5.1.136 (element)endpointA

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeUnitConnection

11.5.1.137 (element)endpointB

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeUnitConnection

11.5.1.138 (element)bendpointList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeBendpointList

11.5.1.139 (element)attributeList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeAttributeList

11.5.1.140 (element)broadcastNetwork

documentation This element describes a broadcast network and includes references to the units that are members of the network.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.141 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

- (element)id
- (element)name
- (element)broadcastNetworkModel
- (element)classification
- (element)dataRate
- content**
- (element){0,1} optimizationAttributes
- (element)frequency
- (element)nw:frequencyHopGroup
- (element){0,1} startTime
- (element){0,1} stopTime
- (element){0,1} memberList
- (element){0,1} attributeList

11.5.1.142 (element)id

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeId

11.5.1.143 (element)name

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:string

11.5.1.144 (element)broadcastNetworkModel

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:string

11.5.1.145 (element)classification

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeClassification

11.5.1.146 (element)dataRate

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:double

11.5.1.147 (element)optimizationAttributes

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeNetworkOptimizationAttributes

11.5.1.148 (element)frequency

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:double

11.5.1.149 (element)startTime

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

default value 0.0

type definition nw:typeSimulationTime

11.5.1.150 (element)stopTime

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

default value END

type definition nw:typeSimulationStopTime

11.5.1.151 (element)memberList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.152 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

content

- (element){1,unbounded} member

11.5.1.153 (element)member

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeUnitPhysicalConnection

11.5.1.154 (element)attributeList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeAttributeList

11.5.1.155 (element)satelliteLink

documentation This element describes a GBS or bentpipe satellite link and includes references to the units that are the endpoints of the link.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.156 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract	false
attributes	none (sequence) <ul style="list-style-type: none"> • (element)id • (element)name • (element)satelliteLinkModel • (element)datarate
content	<ul style="list-style-type: none"> • (element){0,1} optimizationAttributes • (element)homeSatellite • (element)terminalA • (element){0,1} terminalB • (element){0,1} bendpointList

11.5.1.157 (element)id

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeId

11.5.1.158 (element)name

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:string

11.5.1.159 (element)satelliteLinkModel

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:string

11.5.1.160 (element)datarate

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:double

11.5.1.161 (element)optimizationAttributes

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeOptimizationAttributes

11.5.1.162 (element)homeSatellite

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeUnitPhysicalConnection

11.5.1.163 (element)terminalA

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeUnitPhysicalConnection

11.5.1.164 (element)terminalB

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeUnitPhysicalConnection

11.5.1.165 (element)bendpointList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeBendpointList

11.5.1.166 (element)relationship

documentation This element specifies an abstract hierarchical or support relationship between two units.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.167 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

- (element)id
- (element)CADM:EXRELT_CD
- (element)refOppositeRelationshipById

content

- (element)source
- (element)destination
- (element){0,1} bendpointList
- (element){0,1} statusList

11.5.1.168 (element)id

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeId

11.5.1.169 (element)refOppositeRelationshipById

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeId

11.5.1.170 (element)source

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeUnitConnection

11.5.1.171 (element)destination

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeUnitConnection

11.5.1.172 (element)bendpointList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeBendpointList

11.5.1.173 (element)statusList

documentation

This element specifies a structured list of start and stop events. The values are simulation times, and so must be non-negative double values or the special value 'END'. The list contains alternating start and stop events, and may end with either start or stop. The values must increase from beginning to end, and there can be no duplicate values in the list. Only the last stop event may have the value 'END'. These requirements are minimally enforced by the schema. Further enforcement would require unintuitive steps, such as giving special names to the first and last entries in the list. The uniqueness of the values cannot be enforced, since Xerces cannot correctly constrain both the numeric values and 'END'.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.174 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence){1,unbounded}

- content**
- (element)start
 - (element){0,1} stop

11.5.1.175 (element)start

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeSimulationTime

11.5.1.176 (element)stop

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeSimulationStopTime

11.5.1.177 (complex type)typeUnitPhysicalConnection

documentation Elements of this type reference a unit and device pair that is an endpoint or member of an infrastructure element. It may also specify the port in the device that is used by the infrastructure element.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

- content**
- (element)refUnitById
 - (group)nw:groupDeviceConnection

11.5.1.178 (element)refUnitById

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeId

11.5.1.179 (complex type)typeUnitConnection

documentation Elements of this type reference a unit that is an endpoint or member of an "abstract" infrastructure element, such as a relationship.

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition	ur-type definition
derivation method	restriction
abstract	false
attributes	none (sequence)
content	<ul style="list-style-type: none"> • (element)refUnitById

11.5.1.180 (element)refUnitById

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract	false
nillable	false
type definition	nw:typeId

11.5.1.181 (complex type)typeDeviceConnection

documentation Elements of this type refer to a device that is an endpoint or member of an infrastructure element. It may also specify the port in that device that is used by the infrastructure element. The unit that contains the device may be specified, but the unit reference is secondary to the device reference and is intended only to simplify XML parsing when the data is from a trusted source. Validation of XML documents will not verify that the device actually exists in the specified unit.

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition	ur-type definition
derivation method	restriction
abstract	false
attributes	none (sequence)
content	<ul style="list-style-type: none"> • (element){0,1} refUnitById • (group)nw:groupDeviceConnection

11.5.1.182 (element)refUnitById

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
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abstract false
nillable false
type definition nw:typeId

11.5.1.183 (element)refDeviceById

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false
type definition nw:typeId

11.5.1.184 (element)refPortByName

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false
type definition xs:string

11.5.1.185 (element)frequencyHopGroup

documentation This element specifies the possible values for the hop group setting on physical infrastructure elements that support frequency hopping.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
default value disabled

11.5.1.186 (element)MOPCollection

documentation This element is used by some infrastructure elements to enable or disable collection of associated MOPs.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
default value OFF

11.5.1.187 (element)functionalArea

documentation This element specifies the functional area to which an object is assigned.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false

11.5.1.188 (complex type)typeOptimizationAttributes

documentation An element of this type lists the attributes used during the optimization of links. The utilizations guide the optimization process while the capacities limit the suggested changes.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
base type definition ur-type definition
derivation method restriction
abstract false
attributes none
 (sequence)
 • (element){0,1} targetUtilization
content
 • (element){0,1} maximumUtilization
 • (element){0,1} possibleCapacityList

11.5.1.189 (element)targetUtilization

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nillable false
type definition nw:typeOptimizationUtilizations

11.5.1.190 (element)maximumUtilization

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nillable false
type definition nw:typeOptimizationUtilizations

11.5.1.191 (element)possibleCapacityList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nillable false

11.5.1.192 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none
(sequence)

content

- (element){1,unbounded} trunk

11.5.1.193 (element)trunk

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.194 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none
(sequence)

content

- (element)bandwidth
- (element)voiceChannelRate
- (element)voiceChannelNumber

11.5.1.195 (element)bandwidth

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:double

11.5.1.196 (element)voiceChannelRate

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:double

11.5.1.197 (element)voiceChannelNumber

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:nonNegativeInteger

11.5.1.198 (complex type)typeOptimizationUtilizations

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes none
(sequence)

- content**
- (element){0,1} voice
 - (element){0,1} data

11.5.1.199 (element)voice

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:nonNegativeInteger

11.5.1.200 (element)data

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:nonNegativeInteger

11.5.1.201 (complex type)typeNetworkOptimizationAttributes

documentation An element of this type lists the attributes used during the optimization of broadcast networks. The utilizations guide the optimization process while the data rates limit the suggested changes. Broadcast networks are different than other associations in that they do not support optimization of voice channels.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation restriction

method
abstract false
attributes none
 (sequence)
 • (element){0,1} targetUtilization
content
 • (element){0,1} maximumUtilization
 • (element){0,1} possibleCapacityList

11.5.1.202 (element)targetUtilization

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:nonNegativeInteger

11.5.1.203 (element)maximumUtilization

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:nonNegativeInteger

11.5.1.204 (element)possibleCapacityList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.205 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

content
 • (element){1,unbounded} dataRate

11.5.1.206 (element)dataRate

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false
type definition xs:double

11.5.1.207 (element)opfacTemplateList

documentation This element contains a list of template OPFACs that may be loaded into the JCSS Toolkit for use in constructing scenarios.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false

11.5.1.208 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition ur-type definition
derivation method restriction
abstract false
attributes none
 (sequence)
content

- (element){0,unbounded} nw:opfacTemplate

11.5.1.209 (element)opfacTemplate

documentation This element describes a template Operational Facility.
target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false

11.5.1.210 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition ur-type definition
derivation method restriction
abstract false
attributes

- (attribute group)nw:groupOpfacAttributes

 (sequence)
content

- (group)nw:groupOpfacData
- (element){0,1} profileList

- (element){0,1} attributeList
- (group)nw:groupOpfacContainment

11.5.1.211 (element)profileList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeProfileList

11.5.1.212 (element)attributeList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeAttributeList

11.5.1.213 (element)opfac

documentation This element describes an instance of an Operational Facility. The instance includes data elements that are not included in the OPFAC template element, since those data elements are only meaningful in the context of an organization or scenario. In addition, the XML OPFAC instance does not support the delayed elaboration that is supported within the Scenario Builder and the network model file.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.214 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

- JNMSExport = true

attributes

- (attribute group)nw:groupOpfacAttributes

- altered = false

content (sequence)

- (element)CADM:ORG_ID
- (element)CADM:ORGAD_UNIT_CMN_NM
- (group){0,1} nw:groupOpfacData
- (element){0,1} tasks
- (choice){0,1}
 - (element)nw:unitLocation
 - (element)nw:trajectory
- (element){0,1} nw:JNMSData
- (element){0,1} attributeList
- (group){0,1} nw:groupOpfacContainment

documentation

This element specifies the name of the OPFAC instance in the organization or scenario. OPFACs of the same type may have different names.

11.5.1.215 (element)tasks

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeUnitTasks

11.5.1.216 (element)attributeList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeAttributeList

documentation

This attribute specifies whether the devices and connections within the OPFAC have been modified. The Toolkit tracks this modification, since a modified OPFAC may be used to create a new template.

documentation

This element specifies the name of the OPFAC template. An OPFAC instance created from this template will have this name as its "type".

11.5.1.217 (element)mil_name**target namespace** http://www.jcss.disa.mil/2007/2007.01.26/JCSS**abstract** false**nillable** false**type definition** xs:string**11.5.1.218 (element)cost****target namespace** http://www.jcss.disa.mil/2007/2007.01.26/JCSS**abstract** false**nillable** false**default value** 0**type definition** xs:integer**11.5.1.219 (element)service****target namespace** http://www.jcss.disa.mil/2007/2007.01.26/JCSS**abstract** false**nillable** false**type definition** xs:string**11.5.1.220 (element)deviceList****target namespace** http://www.jcss.disa.mil/2007/2007.01.26/JCSS**abstract** false**nillable** false**11.5.1.221 (complex type)****target namespace** http://www.jcss.disa.mil/2007/2007.01.26/JCSS**base type definition** ur-type definition**derivation method** restriction**abstract** false**attributes** none

(sequence)

content

- (element){1,unbounded} nw:device

11.5.1.222 (element)wiredLinkList**target namespace** http://www.jcss.disa.mil/2007/2007.01.26/JCSS**abstract** false**nillable** false

11.5.1.223 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

content

- (element){1,unbounded} nw:wiredLink

11.5.1.224 (element)annotationList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeAnnotationList

documentation

This attribute specifies that the OPFAC being described is of a special type. The only legal value at this time is 'utility', which indicates that the OPFAC contains a "utility" node, such as the ATM configuration node. If other special types are required, this attribute can be extended to define an enumerated set of values.

11.5.1.225 (element)JNMSData

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.226 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

content

- (element)namedLocation
- (element)echelon
- (element)functionalType
- (element)subscriberUnit

- (element)responsibleCommunicationsUnit
- (element)parentResponsibleCommunicationsUnit

11.5.1.227 (element)namedLocation

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.228 (element)echelon

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.229 (element)functionalType

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.230 (element)subscriberUnit

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.231 (element)responsibleCommunicationsUnit

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.232 (element)parentResponsibleCommunicationsUnit

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.233 (element)device

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.234 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes • JNMSExport = true

(sequence)

• (element)id

• (element)name

• (element)model

content

• (element){0,1} equipmentType

• (element){0,1} classification

• (element)location

• (element){0,1} attributeList

11.5.1.235 (element)id

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeId

11.5.1.236 (element)name

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.237 (element)model

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.238 (element)equipmentType

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.239 (element)classification

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeClassification

11.5.1.240 (element)location

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeDeviceLocation

11.5.1.241 (element)attributeList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeAttributeList

11.5.1.242 (complex type)typeDeviceLocation

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

content

- (element)xPosition

- (element)yPosition
- (element){0,1} altitude

11.5.1.243 (element)xPosition

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

default value 0

type definition nw:typeDevicePosition

11.5.1.244 (element)yPosition

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

default value 0

type definition nw:typeDevicePosition

11.5.1.245 (element)altitude

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

default value 0

type definition xs:double

11.5.1.246 (simple type)typeDevicePosition

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition xs:double

Facets

- is greater than or equal to 0
- is less than or equal to 1113.17

11.5.1.247 (element)globalFunctionalProfileList

documentation This element contains a list of global Functional Profiles, which are shared by all scenarios. It may be used to store the global profiles in an external document.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false

11.5.1.248 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes none
(sequence)

content

- (element){0,unbounded} nw:globalFunctionalProfile

11.5.1.249 (element)globalFunctionalProfile

documentation This element specifies a global Functional Profile, which contains several Functional Names. Each global profile may be referenced by zero or more OPFACs.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false

11.5.1.250 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes

- name

(sequence)

content

- (element){0,unbounded} nw:functionalName

11.5.1.251 (element)localFunctionalProfile

documentation This element specifies a local Functional Profile, which contains several Functional Names. Each OPFAC has exactly one profile, although the profile may reference a global functional profile instead of using its own functional names.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false

11.5.1.252 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition ur-type definition
derivation method restriction

abstract false

attributes • globalRef
 (sequence)

content • (element){0,unbounded} nw:functionalName

documentation

Since the global functional profiles are stored separately from the OPFACs or scenarios, references to global profile names cannot be validated.

11.5.1.253 (element)name

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.254 (complex type)typeAnnotationList

documentation An element of this type contains a list of annotation elements. Annotations are embellishments drawn in the network, such as boxes, lines, and text.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)
content • (element){1,unbounded} annotation

11.5.1.255 (element)annotation

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.256 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes • type

(sequence)

• (element)name

content

• (element){0,1} bendpointList

• (element){0,1} attributeList

11.5.1.257 (element)name

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.258 (element)bendpointList

documentation Only annotations of type 'Line' should specify bendpoints.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeBendpointList

11.5.1.259 (element)attributeList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeAttributeList

11.5.1.260 (complex type)typeFlowList

documentation An element of this type contains a list of flow elements. A flow specifies traffic between exactly two devices.

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition	ur-type definition
derivation method	restriction
abstract	false
attributes	none
content	(sequence) <ul style="list-style-type: none"> • (element){1,unbounded} flow

11.5.1.261 (element)flow

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract	false
nillable	false
type definition	nw:typeStandardConnection

11.5.1.262 (complex type)typeConnectionList

documentation An element of this type contains a list of connection elements. A connection connects exactly two devices and may be used for abstract connections such as PVCs.

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition	ur-type definition
derivation method	restriction
abstract	false
attributes	none
content	(sequence) <ul style="list-style-type: none"> • (element){1,unbounded} connection

11.5.1.263 (element)connection

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract	false
nillable	false
type definition	nw:typeStandardConnection

11.5.1.264 (complex type)typeStandardConnection

documentation	An element of this type is connects exactly two devices and may represent various types of associations between them.
target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition	ur-type definition
derivation method	restriction
abstract	false
attributes	none
content	<p>(sequence)</p> <ul style="list-style-type: none"> • (element)name • (element)model • (element)endpointA • (element)endpointB • (element){0,1} attributeList

11.5.1.265 (element)name

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract	false
nillable	false
type definition	xs:string

11.5.1.266 (element)model

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract	false
nillable	false
type definition	xs:string

11.5.1.267 (element)endpointA

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract	false
nillable	false

11.5.1.268 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
base type definition ur-type definition
derivation method restriction
abstract false
attributes none
 (sequence)
content

- (element)refDeviceById

11.5.1.269 (element)refDeviceById

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nillable false
type definition nw:typeId

11.5.1.270 (element)endpointB

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nillable false

11.5.1.271 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
base type definition ur-type definition
derivation method restriction
abstract false
attributes none
 (sequence)
content

- (element)refDeviceById

11.5.1.272 (element)refDeviceById

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nillable false
type definition nw:typeId

11.5.1.273 (element)attributeList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false
nillable false
type definition nw:typeAttributeList

11.5.1.274 (complex type)typePathList

documentation An element of this type contains a list of path elements. A path connects two or more devices and may be used for traffic routing.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition ur-type definition
derivation method restriction
abstract false
attributes none
 (sequence)
content

- (element){1,unbounded} path

11.5.1.275 (element)path

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false

11.5.1.276 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false
attributes none

(sequence)

- (element)name
- content**
- (element)model
- (element)pathPointList
- (element){0,1} attributeList

11.5.1.277 (element)name

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.278 (element)model

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.279 (element)pathPointList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.280 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

content

- (element){2,unbounded} refDeviceById

11.5.1.281 (element)refDeviceById

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeId

11.5.1.282 (element)attributeList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeAttributeList

11.5.1.283 (complex type)typeBendpointList

documentation An element of this type contains a list of bendpoint. A bendpoint specifies a point at which a visual line changes direction. Bendpoint are specified for links, connections, and annotations.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
base type definition ur-type definition
derivation method restriction
abstract false
attributes none
content (sequence)

- (element){1,unbounded} bendpoint

11.5.1.284 (element)bendpoint

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nillable false

11.5.1.285 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
base type definition ur-type definition
derivation method restriction
abstract false
attributes none
content (sequence)

- (element)x
- (element)y

11.5.1.286 (element)x

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nillable false
type definition nw:typeLongitude

11.5.1.287 (element)y

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeLatitude

11.5.1.288 (simple type)typeId

documentation This type specifies the type of the ID element used to identify organization, OPFAC and device elements, and also of the reference elements used to specify connections to the units by the infrastructure elements. This type must match the type of the CADM:ORG_ID element. (No way was found to directly use the definition of the CADM element to specify the ID type.)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition xs:long

facets

11.5.1.289 (simple type)typeUnitTasks

documentation An element of this type specifies the free-text description of the tasks assigned to a unit.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition xs:string

facets

11.5.1.290 (element)trajectory

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.291 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

content (sequence)

- (element){1,unbounded} nw:unitLocationStep

11.5.1.292 (element)unitLocation

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.293 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

- content**
- (element){0,1} lockPosition
 - (group)nw:groupUnitLocation

11.5.1.294 (element)lockPosition

documentation This element specifies whether the unit is locked to its current location.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

default value false

type definition xs:boolean

11.5.1.295 (element)unitLocationStep

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.296 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

- (sequence)
- content**
 - (element)CADM:ORGP_SEQ_ID
 - (group)nw:groupUnitLocation

11.5.1.297 (element)elapsedTime

documentation This element specifies the elapsed time for which the unit occupies the location. The equivalent CADM attribute, C_ORGLOCPT_ELT_QY, is not used because it does not allow fractional values.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
default value 0.0
type definition nw:typeSimulationTime

11.5.1.298 (element)latitude

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
type definition nw:typeLatitude

11.5.1.299 (element)longitude

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
type definition nw:typeLongitude

11.5.1.300 (element)elevationDimension

documentation This element corresponds to the CADM attribute MEASURED-ELEVATION-POINT ELEVATION DIMENSION. The CADM attribute is not referenced directly because it is limited to integer precision, whereas JCSS requires fractional precision. The value of the element CADM:PT_ELEV_TY_CD determines the meaning of this elevation value.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
default value 0

type definition xs:float

11.5.1.301 (simple type)typeLatitude

documentation An element of this type specifies the latitude of an object in units of degrees, north or south of the equator. The equivalent CADM attribute, C_PT_LAT_COORD, is not used because it assumes a different coordinate system.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition xs:decimal

- facets**
- is greater than or equal to -90.0
 - is less than or equal to 90.0

11.5.1.302 (simple type)typeLongitude

documentation An element of this type specifies the longitude of an object in units of degrees, east or west of the zero meridian. The equivalent CADM attribute, C_PT_LON_COORD, is not used because it assumes a different coordinate system.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition xs:decimal

- facets**
- is greater than or equal to -180.000000
 - is less than or equal to 180.000000

11.5.1.303 (simple type)typeSimulationTime

documentation An element of this type specifies legal values for a simulation time point or duration. The values are measured in seconds.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition xs:double

- facets**
- is greater than or equal to 0

11.5.1.308 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none
(sequence)

content

- (element)name
- (element)xUnits
- (element)yUnits
- (element){0,1} entryList

11.5.1.309 (element)name

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:string

11.5.1.310 (element)xUnits

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:string

11.5.1.311 (element)yUnits

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:string

11.5.1.312 (element)entryList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.313 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none
(sequence)

content

- (element){1,unbounded} entry

11.5.1.314 (element)entry

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.315 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes none
(sequence)

content

- (element)x
- (element)y

11.5.1.316 (element)x

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:double

11.5.1.317 (element)y

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition xs:double

11.5.1.318 (complex type)typeAttributeList

documentation An element of this type contains a mixed list of simple and compound attributes. A simple attribute has a simple value, such as an integer. A

compound attribute has a value consisting of a list of other simple or compound attributes. Both simple and compound attributes may alternately have a symbolic value, which is a string that stands for another value of the type appropriate for that attribute. For example, an integer attribute that records a buffer size might allow a symbolic value "Large" that stands for the real value 2048. All attributes also have a name and an "intended" flag. The "intended" flag indicates whether a user explicitly set the value, i.e. a user "intended" the attribute to have that value.

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition	ur-type definition
derivation method	restriction
abstract	false
attributes	none
	(sequence)
content	<ul style="list-style-type: none"> • (group){1,unbounded} nw:groupAttributeSet

documentation

This group is used by both typeAttributeList and compoundAttribute/row. It specifies all of the standard attributes elements.

11.5.1.319 (element)integer

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract	false
nillable	false

11.5.1.320 (complex type)

target namespace	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition	ur-type definition
derivation method	restriction
abstract	false
attributes	<ul style="list-style-type: none"> • (attribute group)nw:attrGroupAttribute (choice)
content	<ul style="list-style-type: none"> • (element)value • (element)symbolicValue

11.5.1.321 (element)value

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:integer

11.5.1.322 (element)symbolicValue

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeSymbolicValue

11.5.1.323 (element)double

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.324 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes

- (attribute group)nw:attrGroupAttribute

(choice)

content

- (element)value
- (element)symbolicValue

11.5.1.325 (element)value

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:double

11.5.1.326 (element)symbolicValue

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeSymbolicValue

11.5.1.327 (element)string

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.328 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes • (attribute group)nw:attrGroupAttribute
(choice)

content • (element)value
• (element)symbolicValue

11.5.1.329 (element)value

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.330 (element)symbolicValue

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeSymbolicValue

11.5.1.331 (element)profileName

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.332 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes • (attribute group)nw:attrGroupAttribute
(choice)

• (sequence)

content ○ (element)value

○ (element){0,1} library

• (element)symbolicValue

11.5.1.333 (element)value

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.334 (element)library

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.335 (element)symbolicValue

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeSymbolicValue

11.5.1.336 (element)textlist

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.337 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

- abstract** false
- attributes**
 - (attribute group)nw:attrGroupAttribute
 (choice)
- content**
 - (element){0,unbounded} entry
 - (element)symbolicValue

11.5.1.338 (element)entry

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

- abstract** false
- nillable** false
- type definition** xs:string

11.5.1.339 (element)symbolicValue

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

- abstract** false
- nillable** false
- type definition** nw:typeSymbolicValue

11.5.1.340 (element)toggle

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

- abstract** false
- nillable** false

11.5.1.341 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

- abstract** false
- attributes**
 - (attribute group)nw:attrGroupAttribute
 (choice)
- content**
 - (element)value
 - (element)symbolicValue

11.5.1.342 (element)value

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

- abstract** false

nillable false
type definition nw:typeToggleValue

11.5.1.343 (element)symbolicValue

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
type definition nw:typeSymbolicValue

11.5.1.344 (element)typedFile

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false

11.5.1.345 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition ur-type definition
derivation method restriction
abstract false
attributes

- (attribute group)nw:attrGroupAttribute (choice)

content

- (element)value
- (element)symbolicValue

11.5.1.346 (element)value

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
type definition xs:string

11.5.1.347 (element)symbolicValue

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
type definition nw:typeSymbolicValue

11.5.1.348 (element)color

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.349 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes

- (attribute group)nw:attrGroupAttribute

(choice)

content

- (element)value
- (element)symbolicValue

11.5.1.350 (element)value

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.351 (element)symbolicValue

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

type definition nw:typeSymbolicValue

11.5.1.352 (element)other

documentation Some attribute types are not exposed to JCSS and are specified only as "other". These attributes are treated as strings.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.1.353 (complex type)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

base type definition ur-type definition

derivation method restriction

abstract false

attributes • (attribute group)nw:attrGroupAttribute
(choice)

content • (element)value
• (element)symbolicValue

11.5.1.354 (element)value

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition xs:string

11.5.1.355 (element)symbolicValue

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeSymbolicValue

11.5.1.356 (element)compoundAttribute

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.1.357 (complex type)

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes • (attribute group)nw:attrGroupAttribute
(choice)

content • (element){0,unbounded} row
• (element)symbolicValue

11.5.1.358 (element)row

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false
nillable false

11.5.1.359 (complex type)

documentation Unlike other lists of attributes, row elements may be empty. This occurs when all of its attributes are "unintended" and the export of unintended attributes is disabled. In the same circumstance, other attribute lists are omitted, but each row is necessary to ensure that following rows are correctly indexed.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
base type definition ur-type definition
derivation method restriction
abstract false
attributes none
 (sequence)
content

- (group){0,unbounded} nw:groupAttributeSet

11.5.1.360 (element)symbolicValue

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nillable false
type definition nw:typeSymbolicValue

11.5.1.361 (simple type)typeSymbolicValue

documentation This type is a shared definition for symbolic values in all JCSS attributes.
target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
base type definition xs:string
facets

11.5.1.362 (simple type)typeToggleValue

documentation This type is used by JCSS toggle attributes.
target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
base type definition xs:string
facets

- is one of the values:

- o enabled
- o disabled

documentation

This group specifies the XML attributes that are common to all JCSS attribute elements.

11.5.1.363 (simple type)typeClassification

documentation An element of this type specifies a classification level. Since JCSS allows users to specify custom classification levels, this type allows any string. The standard set of classification levels consists of Unclassified, Classified, Confidential, Secret, and Top Secret. The CADM:SC_CD element is not used since it does not match the standard JCSS classification levels and is not customizable.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition xs:string
facets

11.5.1.364 (element)nameMap

documentation This element defines a "name map" that specifies a mapping between from a set of source names to a set of target names. Name maps are used to manipulate the names of items, such as device models, during import and export in JCSS. For example, when exporting a scenario, JCSS may use a map to convert its native device model names to the names of similar device models used in another system. The set of native JCSS device model names is the source set. The set of names in the other system is the target set. When importing, the roles are reversed and the native JCSS device model names are the target set.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
abstract false
nillable false
type definition nw:typeNameMap

11.5.1.365 (complex type)typeNameMap

documentation An element of this type specifies a complete mapping from the source name set to the target name set.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS
base type definition ur-type definition

derivation method	restriction
abstract	false
attributes	none (sequence)
content	<ul style="list-style-type: none"> • (element){0,1} entryList • (element){0,1} unmappedSourceList

11.5.1.366 (element)entryList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeEntryList

11.5.1.367 (element)unmappedSourceList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeSourceList

11.5.1.368 (simple type)typeMapName

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition xs:string

facets

11.5.1.369 (complex type)typeSourceList

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

base type definition ur-type definition

derivation method restriction

abstract false

attributes none

(sequence)

content

- (element){1,unbounded} sourceName

11.5.1.370 (element)sourceName

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false
type definition nw:typeMapName

11.5.1.371 (complex type)typeEntryList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
base type definition ur-type definition
derivation method restriction
abstract false
attributes none
 (sequence)
content

- (element){1,unbounded} entry

11.5.1.372 (element)entry

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nillable false
type definition nw:typeEntry

11.5.1.373 (complex type)typeEntry

documentation An element of this type specifies a single map entry. All source names in an entry will map to the target name.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
base type definition ur-type definition
derivation method restriction
abstract false
attributes none
 (sequence)
content

- (element){0,1} sourceList
- (element)targetName

11.5.1.374 (element)sourceList

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nillable false

type definition nw:typeSourceList

11.5.1.375 (element)targetName

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

type definition nw:typeMapName

11.5.2 Imported Schema

schema location NETWARS_ALL_CADM_18JUN03_NAMESPACE.xsd

target namespace http://www.netwars.disa.mil/ALL_CADM_18JUN03

This schema coerces the ALL_CADM schema created by IDA into a namespace that is similar to the main JCSS namespace. The ALL_CADM elements are placed outside the main JCSS schema so that CADM and non-CADM elements may be clearly distinguished using the namespaces. The ALL_CADM schema does not specify a target namespace, allowing this coercion.

11.5.3 Included Schema

schema location ALL_CADM_18JUN03.xsd

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

11.5.3.1 (element)DIT_CLS_CD

(63155/1) (A) THE CODE THAT REPRESENTS A SPECIFIC GROUPING OF A DATA-ITEM-TYPE. ORACLE Data Type = NUMBER(2)

documentation 01 = C--COURIER/MANUAL; 02 = F--FACSIMILE; 03 = A-DIGITAL ASCII DATA; 04 = B-DIGITAL BIT-ORIENTED DATA; 05 = I--IMAGE; 06 = T--TEXT ASCII; 07 = L--VIDEO LIVE; 08 = P--POSITION AND NAVIGATION; 09 = S--VIDEO STILL FRAME; 10 = V--VOICE; 98 = NOT SPECIFIED; 99 = NOT KNOWN.

target namespace http://www.jcss.disa.mil/2007/2007.01.26/JCSS

abstract false

nillable false

11.5.3.2 (element)EXRELT_CD

(63177/1) (A) THE CODE THAT REPRESENTS A KIND OF SPECIFIC EXCHANGE-RELATIONSHIP-TYPE. ORACLE Data Type = CHAR(2)

documentation 00 = INTRA (WITHIN THE SAME UNIT); 0A = HIGHER TO LOWER IN CHAIN OF COMMAND; 0C = SUPPORTED TO DIRECT SUPPORT (AIR

DEFENSE ARTILLERY & ENGINEER SUPPORT); 0D = SUPPORTED TO GENERAL SUPPORT (AIR DEFENSE ARTILLERY & ENGINEER SUPPORT); 0F = REINFORCED UNIT TO GENERAL SUPPORT REINFORCING (GSR) UNIT; 0G = SUPPORTED TO AREA SUPPORT; 98 = NOT SPECIFIED; 99 = NOT KNOWN; A0 = LOWER TO HIGHER IN CHAIN OF COMMAND; AA = COMPANY TO COMPANY (DIFFERENT COMPANY -SAME BATTALION); BT = U.S. ARMY UNIT TO NATO MILITARY; C0 = DIRECT SUPPORT TO SUPPORTED (AIR DEFENSE ARTILLERY & ENGINEER; C0 = SUPPORT); D0 = GENERAL SUPPORT TO SUPPORTED (AIR DEFENSE ARTILLERY & ENGINEER SUPPORT); F0 = GENERAL SUPPORT REINFORCING (GSR) UNIT TO REINFORCED UNIT; G0 = AREA SUPPORT TO SUPPORTED; GM = GENERAL SUPPORT TO MUTUAL SUPPORTED; JK = THEATER (ARMY) UNIT TO HOST NATION (CIVIL); KJ = HOST NATION (CIVIL) TO THEATER (ARMY); LL = COMPANY TO COMPANY (DIFFERENT BATTALION - SAME BRIGADE); LM = ADJACENT US DIVISION/CORPS UNIT TO DIVISION/CORPS UNIT; LP = HOST NATION UNIT TO CORPS UNIT; MG = MUTUAL SUPPORT UNIT RECEIVING GENERAL SUPPORT; ML = DIVISION/CORPS UNIT TO ADJACENT DIVISION/CORPS UNIT; MN = DIVISION/CORPS UNIT TO ADJACENT ALLIED DIVISION/CORPS UNIT; MP = CORPS TO THEATER (ECHELONS ABOVE CORPS); NM = ADJACENT ALLIED DIVISION/CORPS UNIT TO DIVISION/CORPS UNIT; NP = OTHER U.S. SERVICE UNIT TO U.S. ARMY UNIT; PL = CORPS UNIT TO HOST NATION UNIT; PM = THEATER (ECHELONS ABOVE CORPS) TO CORPS; PN = U.S. ARMY UNIT TO OTHER U.S. SERVICE UNIT; PT = THEATER TO THEATER (INCLUDES CONUS); RR = COMPANY TO COMPANY (DIFFERENT BRIGADE -SAME DIVISION); TB = NATO MILITARY TO U.S. ARMY UNIT; UU = COMPANY TO COMPANY (DIFFERENT DIVISION -SAME CORPS); ZZ = UNDEFINED.

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nillable false

11.5.3.3 (element)ORG_ID

documentation (7875/2) (A) THE IDENTIFIER THAT REPRESENTS AN ADMINISTRATIVE STRUCTURE WITH A MISSION. ORACLE Data Type = NUMBER(20)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>
abstract false
nillable false

11.5.3.4 (element)ORG_DESCR_TX

documentation (4882/2) (A) THE TEXT DESCRIBING AN ORGANIZATION. ORACLE Data Type = VARCHAR2(999)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.3.5 (element)ORGAD_UNIT_CMN_NM

documentation (63028/1) (A) THE NAME NORMALLY APPLIED TO AN ORGANIZATION-ARCHITECTURE-DETAIL. ORACLE Data Type = VARCHAR2(250)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.3.6 (element)ORGP_SEQ_ID

documentation (64006/1) (A) THE IDENTIFIER THAT REPRESENTS THE RELATIVE POSITION OF A FACILITY-LOCATION-POINT AMONG THE SET OF FACILITY-LOCATION-POINTS ASSOCIATED WITH A SPECIFIC FACILITY. ORACLE Data Type = NUMBER(9)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.3.7 (element)ORGT_NM

documentation (33182/1) (A) THE NAME OF AN ORGANIZATION-TYPE. ORACLE Data Type = VARCHAR2(250)

target namespace <http://www.jcss.disa.mil/2007/2007.01.26/JCSS>

abstract false

nillable false

11.5.3.8 (element)PT_ELEV_TY_CD

documentation (16256/1) (X) THE CODE THAT REPRESENTS THE WAY IN WHICH ELEVATION IS SPECIFIED FOR A POINT. ORACLE Data Type =

CHAR(1)

1 = A--MEASURED-ELEVATION-POINT; 2 = B--SEA-SURFACE-POINT;
3 = C--SEA-FLOOR-POINT; 4 = D--LAND-SURFACE-POINT; 5 = E--
UNSPECIFIED-ELEVATION-POINT.

target	http://www.jcss.disa.mil/2007/2007.01.26/JCSS
namespace	
abstract	false
nilable	false