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Overview

The <u>Schema</u> Subset Generation Tool (<u>SSGT</u>) presents the schema designer with an interface that permits searching through the National Information Exchange Model (NIEM) for desired types and properties by substrings in names, definitions, and other fields of <u>NIEM</u>. When appropriate types or properties are found, the user may select them for inclusion in a schema subset. <u>SSGT</u> applies the appropriate rules and automatically includes any types and elements that the user selections depend on. The designer does not have to manage subsetting rules or dependencies. After selecting all of the desired types and properties, the designer can generate the schema subset. The result is a **zip** archive file containing the relevant, valid subset schemas derived from the <u>NIEM</u> reference schemas and any referenced code list schemas. The [**zip**] archive directory structure and file placement is arranged automatically.



Figure: SSGT Automatic Dependencies

Search and Discovery

The Schema Subset Generation Tool (SSGT) search function allows you to:

- Enter search terms and view matching results in a data hierarchy format.
- Navigate through the various data types, properties, namespaces, and facets and their relationships.
- Select advanced search options to refine your search results.

Search Page

• Click the <u>Search</u> link to display the search page.

Search				
(i) Schema Subset	[Hide Edit Cardinality]	🚯 Data Model Search	Show Advanced (*)	Generate Documents
Types		Search for a Property	Search	

Figure:SSGT Search Page

Note: The search page is displayed by default.

Basic Search

- 1. Click the <u>Search for a</u> drop-down and select either Property, Type, *Namespace*, or *Facet*.
- 2. Enter a search term in the text box next to the drop-down.
- 3. Click the <u>Search</u> button.

Property: A *Property* is a global schema xsd:element.

Type: A *Type* is a schema xsd:complexType or xsd:simpleType that contains any number of properties. For example, nc:OrganizationType contains properties, such as

nc:OrganizationLocation, nc:OrganizationStatus, etc. Properties from the namespace xsd-proxy are wrappers for schema simple types such as xsdproxy:string for xsd:string or xsd-proxy for xsd:integer. Proxy simple types allow for adding metadata to the properties.

Namespace: A *Namespace* is a logical grouping of data types, properties, and facets associated with a particular domain. If *Namespace* is selected in the search drop-down, the namespace prefixes, fully qualified namespace URIs, and namespace descriptions will be searched for the matching search term. The namespace or a hyperlinked list of namespaces that contain the matching term will be returned.

Facet: A *Facet* is a constraint on the values of eXtensible Markup Language (XML) simple types (such as strings, integers, dates, binaries, etc.). Such constraints can be on data value length, patterns, or specific values. For example, an enumeration facet constrains a string type property to a particular set of values, often referred to as a code list. A code list for an organization category type might constrain valid string values to Business, Charity, Criminal Justice, etc. If set to *Facet*, all code lists (enumeration facets) matching a substring either in a code value or definition will be returned.

Search	
Schema Subset [Hide Edit Cardinality]	Data Model Search Data Model Search Control Contro Control Control Contro
	Search for Property Search
Types (The schema subset does not include any type definitions.)	Type No property fo Namespace Facet You should are Association
Attributes (The schema subset does not include any attribute declarations.)	You may wish to change your search. For example: rather than search for a property, you may wish to search for a different component type; or, rather than search within NIEM-3.1, you may wish to search for a different release.

Figure: SSGT Search and Discovery

Advanced Search

- Click the toggle link Show Advanced to show advanced search options.
- Click the toggle link Hide Advanced to hide advanced search options (green circle).Enter search terms in the text-box labeled with the exact phrase to search multiple terms.

- Enter search terms in the text-box labeled with at least one of the words to conduct a logical OR search.
- Enter search terms in the text-box labeled without the words to exclude terms from the search results.
- Uncheck the check-boxes Names, Definition, Keywords, Usage, and Example Content to exclude the unchecked item from being searched for the search terms entered above.

Note: If all check-boxes are unchecked, no results will be returned.

		0.5	
Schema Subset [Hide Edit Cardinality]	Data Model Search	Hide Advanced A	Generate Documents
	Search for a Property	Search	
ypes The schema subset does not include any type	with at least one of the words		
lefinitions.)	without the words		
Attributes	Without the words	Search Context Definitions	
The schema subset does not include any attribute leclarations.)		Clear Search Terms	
	Search within the following component	attributes	
	Names		
leclarations.)	Definitions		
	Keywords		
	✓ Usage		
	Example Content	Destant Charles Defaults	
		Clear Checkboxes	
		Clear Checkboxes	
	Search within the following domains:		
	Chemical, Biological, Badiological, an	d Nuclear (CBRN)	
	 Children, Youth and Family Services 		
	Emergency Management		
	Human Services		
	Immigration		
	Infrastructure Protection		
	✓ Intelligence		
	International Frade		
	Maritime		
	MilOps		
	Screening		
	☑ Other		
		Restore Checkbox Defaults	
		Clear Checkboxes	
	No property found.		
	You should provide at least one search wo	rd.	

Figure: SSGT Advanced Search

Exploring search results

The properties and types displayed in the search results are hyperlinked to display more detailed information about that component. This helps users navigate through the data model to find associated properties and to explore the model hierarchy.

Search	
	🔾 Search 🛛 🔂 Generate Documents 🖉 Options
Schema Subset I Hide Edit Cardinality 1	Data Model Search Show Advanced
	Search for a Property unit Search
Types	
(The schema subset does not include any type	Add mo:UnitTypeCodeText (mo : UnitTypeCodeTextType) details -
definitions.)	Add mo:speedUnitCode (unece : VelocityCodeSimpleType) details -
Attributes	Add nc:AddressSecondaryUnitText (nc : TextType) details -
(The schema subset does not include any attribute	Add nc:DisciplinaryActionCommunityService (nc : ActivityType) details -
declarations.)	Add nc:LengthUnitCode (unece : LengthCodeType) details -
Elements	Add nc:LocaleCommunityName (nc : TextType) details +
(The schema subset does not include any element	Add nc:MeasureUnit abstract details 👻
declarations.)	Add nc:MeasureUnitText (nc : TextType) details -
	Add nc:OrganizationSubUnit (nc : OrganizationType) details -
	Add nc:OrganizationSubUnitName (nc : TextType) details -
	Add nc:OrganizationUnit (nc : OrganizationType) details -
	Add nc:OrganizationUnitAssociationAugmentationPoint abstract details -
	Add nc:OrganizationUnitName (nc : TextType) details -
	Add nc:PersonAssignedUnitAssociation (nc : PersonOrganizationAssociationType) details
	Add nc:PersonTemporaryAssignedUnitAssociation (nc : PersonOrganizationAssociationType) details -
	Add nc:SpeedUnitCode (unece : VelocityCodeType) details -
	Add nc:TemperatureUnitCode (unece : TemperatureUnitCodeType) details -
	Add nc:TimeUnitCode (unece : TimeCodeType) details -
	Add nc:VehicleGrossLadenUnitWeightMeasure (nc : MeasureType) details -
	Add nc:VolumeUnitCode (unece : VolumeUnitCodeType) details -
	Add nc:WeightUnitCode (unece : MassCodeType) details -
	Add nc:quantityUnitText (xs : string) details *
	Add scr:LocationBuildingUnitName (nc : TextType) details -
	Add scr:l ocationBuildingUnitNumberText (nc : TextType) details =
	Add biom:NominalScanningResolutionValue (niem-xs ; decimal) details +
	🕅 First 🜗 Previous 🕨 Next 🕅 Last
	Displaying /6-100 of 251 results Page 4 of 11

Figure: SSGT Exploring the Model

Showing Properties

- Click the <u>plus-sign icon</u> to the left of a component to expand the list of properties for that component.
- Click the <u>minus-sign icon</u> to the left of a component to hide the list of properties for that component.



Figure: SSGT Show Properties

Showing Details

- Click the toggle link <u>details</u> to the right of a component to display the details view for that component.
- Click the toggle link <u>details</u> again to hide the details view.

The details view contains the component definition and two radio buttons that allow selection of whether to make the component nillable = "true" or nillable = "false".

Add nc:Organ	nizationUnit (nc : OrganizationType) details -	
Options Content nillable="true nillable="false Reference	Definition A unit of an organization.	

Figure: SSGT Show Details

Showing a Namespace Page

Click a namespace name link before a component name to display that namespace's page.



Figure: SSGT Show Namespace

 The namespace page displays the namespace's prefix, Uniform Resource Identifier (URI) and description.

Search	
Schema Subset [Hide Edit Cardinality]	Q Search Generate Documents Image: Control of the search Image: Data Model Search Show Advanced (> Search for a Property Image: Control of the search
Types (The schema subset does not include any type definitions.) Attributes	Namespace Prefix nc URI http://release.niem.gov/niem/niem-core/3.0/
(The schema subset does not include any attribute declarations.) Elements	Description NIEM Core.
(The schema subset does not include any element declarations.)	

Figure: SSGT Namespace Page

Showing a Type Page

• Click a red type name link to display that type's page.



Figure: SSGT Show Type

 The type page displays the type's definition, content style (complex content or simple content), parents, possible properties, and a list of other properties (elements) that are of the type being displayed.

Figure: SSGT Type Page

Showing a Property Page

Click a blue type name link to display that property's page.



Figure: SSGT Show Property

The property page displays a property's definition, nillable options, types the property is contained in, and the type of the property. Check the appropriate nillable option radio

button. The Contained In group box, if present, contains the type that the property is a member of.

Search Generate Documents Options Schema Subset [Hide Edit Cardinality] Data Model Search Show Advanced (*) Search for a Property unit Search Types (The schema subset does not include any type definitions.) Add Options Add Options Chre schema subset does not include any attribute declarations.) Elements (The schema subset does not include any element declarations.) Property - nc:OrganizationUnit Definition: Aution: Chres schema subset does not include any element declarations.) Property - nc:OrganizationUnit Definition: Aution: Option: Option: Definition: Aution: Chres schema subset does not include any element declarations.) Property - nc:OrganizationUnit Definition: Chres schema subset does not include any element declaration. Option: Option: Property - nc:OrganizationUnit Definition: Chres schema subset does not include any element declaration. Option: Definition: Option: Option: Option: Definition: Definition: Chrester and no constration. Option: Definition: Definition: Definition: Definition: Definition: Definition: Definit	Search	
Types (The schema subset does not include any type definitions.) Attributes (The schema subset does not include any attribute declarations.) Elements Property - nc:OrganizationUnit Offinition: A unit of an organization. @ Contained In Image: Add priors @ Type of this Property	Schema Subset [Hide Edit Cardinality]	Q Search Generate Documents ⊘ Options @ Data Model Search Search for a Property Image: Search for a Property Image: Search for a Property
(The schema subset does not include any element declarations.) Definition: A unit of an organization. @Contained In	Types (The schema subset does not include any type definitions.) Attributes (The schema subset does not include any attribute declarations.) Elements	Add Add Options Content Onillable="true" Onillable="false" Reference
i Add nc : OrganizationType	(The schema subset does not include any element declarations.)	Definition: A unit of an organization. © Contained In — Add nc: OrganizationUnitAssociationType show inheritance ① Type of this Property — Add nc: OrganizationType

Figure: SSGT Property Page

Options Page

• Click the <u>Options</u> link to display the options page.

		🔍 Search 🕞 Generate Documente 📝 Option
Schema Subset [Hide Edit Cardinalit	ty] 📵 Wantlist Options	
	Current Release: NIEM-3.1 Current Nillable Default Value: true	
ypes	NOTE: If you change the current release or change the	current nillable default value, the system will clear your subset.
he schema subset does not include any type	Save your current subset if you wish to keep it.	
finitions.)	Change Release to NIEM-3.1	
tributes	Change Nillable Default Value to True Ealse	
clarations.)		
	Load Wantlist	
ements	Select wantlist XML file to upload and edit:	
ne schema subset does not include any element	Filename: Browse No file se	
clarations.)	Replace current Subset	
	O Merge with current Subset	
	Load Wantlist	
	Baumland Wantlick Onlywer Constitution	
	Download Wantlist Schema Specification	
	Download Wantlist Schema Specification	
	Namespaces	
	Add Everything from a Namespace to your subset (This	can be slow to load for large namespaces):
	Add to subset	Download subset schema archive
	Add Chemical, Biological, Radiological, and Nuclear (CBRN)	Download Chemical, Biological, Radiological, and Nuclear (CBRN)
	Add Children, Youth and Family Services	Download Children, Youth and Family Services
	Add Emergency Management	Download Emergency Management
	Add Human Services	Download Human Services
	Add Immigration	Download Immigration
	Add Infrastructure Protection	Download Infrastructure Protection
	Add Intelligence	Download Intelligence
	Add International Trade	Download International Trade
	Add Justice	Download Justice
	Add Maritime	Download Maritime

Figure: SSGT Options Page

Change Release Version

 Click the <u>Change Release To</u>: drop-down box to select the version NIEM to use when generating the subset zip-file.

		Search Generate Documents Option
Schema Subset [Hide Edit Cardinali	ty] 📵 Wantlist Options	
	Current Release: NIEM-3.1	
	Current Nillable Default Value: true	
ypes	NOTE: If you change the current release or change the	current nillable default value, the system will clear your subset.
he schema subset does not include any type	Save your current subset if you wish to keep it.	
efinitions.)	Change Release to NIEM-3.1	
theileutee	Change Millehle Default Volume to NIEM-2.1	
uributes	Change Nillable Default alue to NIEM-2.0	
he schema subset does not include any attribute	NIEM-1.0 NIEM-3.0-with-domain-	updates
clarations.)	IDead Wantlist NIEM-2.1-with-domain-	updates
ements	Select wantlist XML file to uppead i NIEM-3.0	
	Filename: Browse No file se	
he schema subset does not include any element		
	Replace current Subset	
	O Merge with current Subset	
	Load Wantlist	
	Download Wantlist Schema Specification	
	Download Wantlist Schema Specification Download Wantlist Schema Specification	
	Download Wantlist Schema Specification Download Wantlist Schema Specification	
	Download Wantlist Schema Specification Download Wantlist Schema Specification Namespaces Add Everything from a Namespace to your subset (This	s can be slow to load for large namespaces):
	Download Wantilst Schema Specification Download Wantilst Schema Specification Namespaces Add Everything from a Namespace to your subset (This Add to subset Add to subset	s can be slow to load for large namespaces): Download subset schema archive
	Download Wantlist Schema Specification Download Wantlist Schema Specification Wamespaces Add Everything from a Namespace to your subset (This Add to subset Add Biometrics Add Biometrics	s can be slow to load for large namespaces): Download subset schema archive Download Biometrics Download Chemical Biological Radiological and Nuclear
	Download Wantlist Schema Specification Download Wantlist Schema Specification Namespaces Add Everything from a Namespace to your subset (This Add to subset Add Biometrics Add Chemical, Biological, Radiological, and Nuclear (CBRN)	s can be slow to load for large namespaces): Download subset schema archive Download Biometrics Download Chemical, Biological, Radiological, and Nuclear (CBRN)
	Download Wantiist Schema Specification Download Wantiist Schema Specification Namespaces Add Everything from a Namespace to your subset (This Add to subset Add Biometrics Add Chemical, Biological, Radiological, and Nuclear (CBRN) Add Children, Youth and Family Services	s can be slow to load for large namespaces): Download subset schema archive Download Biometrics Download Chemical, Biological, Radiological, and Nuclear (CBRN) Download Children, Youth and Family Services
	Download Wantlist Schema Specification Download Wantlist Schema Specification Wamespaces Add Everything from a Namespace to your subset (This Add to subset Add Biometrics Add Chemical, Biological, Radiological, and Nuclear (CBRN) Add Children, Youth and Family Services Add Emergency Management	s can be slow to load for large namespaces): Download subset schema archive Download Biometrics Download Chemical, Biological, Radiological, and Nuclear (CBRN) Download Children, Youth and Family Services Download Emergency Management
	Download Wantlist Schema Specification Download Wantlist Schema Specification Namespaces Add Everything from a Namespace to your subset (This Add to subset Add Biometrics Add Chemical, Biological, Radiological, and Nuclear (CBN) Add Children, Youth and Family Services Add Emergency Management Add Human Services	s can be slow to load for large namespaces): Download subset schema archive Download Biometrics Download Chemical, Biological, Radiological, and Nuclear (CBRN) Download Children, Youth and Family Services Download Emergency Management Download Human Services
	Download Wantlist Schema Specification Download Wantlist Schema Specification Namespaces Add Everything from a Namespace to your subset (This Add to subset Add Biometrics Add Chemical, Biological, Radiological, and Nuclear (CBRN) Add Children, Youth and Family Services Add Emergency Management Add Human Services Add Immigration	s can be slow to load for large namespaces): Download subset schema archive Download Biometrics Download Chemical, Biological, Radiological, and Nuclear (CBRN) Download Children, Youth and Family Services Download Emergency Management Download Emergency Management Download Immigration
	Download Wantilst Schema Specification Download Wantilst Schema Specification Namespaces Add Everything from a Namespace to your subset (This Add to subset Add Biometrics Add Chemical, Biological, Radiological, and Nuclear (CBRN) Add Children, Youth and Family Services Add Emergency Management Add Human Services Add Immigration Add Infrastructure Protection	s can be slow to load for large namespaces): Download subset schema archive Download Biometrics Download Chemical, Biological, Radiological, and Nuclear (CBRN) Download Children, Youth and Family Services Download Emergency Management Download Immigration Download Immigration Download Infrastructure Protection
	Download Wantlist Schema Specification Download Wantlist Schema Specification Namespaces Add Everything from a Namespace to your subset (This Add to subset Add Biometrics Add Chemical, Biological, Radiological, and Nuclear (CBRN) Add Children, Youth and Family Services Add Emergency Management Add Imrestructure Protection Add Infrastructure Protection Add Intelligence	s can be slow to load for large namespaces): Download Subset schema archive Download Biometrics Download Chemical, Biological, Radiological, and Nuclear (CBRN) Download Children, Youth and Family Services Download Emergency Management Download Human Services Download Human Services Download Human Services Download Infrastructure Protection Download Infrastructure Protection Download Intelligence
	Download Wantlist Schema Specification Download Wantlist Schema Specification Namespaces Add Everything from a Namespace to your subset (This Add to subset Add Biometrics Add Chemical, Biological, Radiological, and Nuclear (CBN) Add Children, Youth and Family Services Add Human Services Add Human Services Add Intengency Protection Add Intelligence Add International Trade	s can be slow to load for large namespaces): Download subset schema archive Download Biometrics Download Chemical, Biological, Radiological, and Nuclear (CBRN) Download Children, Youth and Family Services Download Emergency Management Download Human Services Download Immigration Download Infrastructure Protection Download Infrastructure Protection Download Intelligence Download Intelligence
	Download Wantlist Schema Specification Download Wantlist Schema Specification Namespaces Add Everything from a Namespace to your subset (This Add to subset Add Biometrics Add Chemical, Biological, Radiological, and Nuclear (CBRN) Add Children, Youth and Family Services Add Emergency Management Add Human Services Add International Add International Trade Add International Trade Add Justice	s can be slow to load for large namespaces): Download subset schema archive Download Biometrics Download Chemical, Biological, Radiological, and Nuclear (CBRN) Download Children, Youth and Family Services Download Human Services Download Human Services Download Human Services Download Infrastructure Protection Download Infrestructure Protection Download Intelligence Download Intelligence Download International Trade Download Justice
	Download Wantilst Schema Specification Download Wantilst Schema Specification Namespaces Add Everything from a Namespace to your subset (This Add to subset Add Biometrics Add Chemical, Biological, Radiological, and Nuclear (CBRN) Add Children, Youth and Family Services Add Emergency Management Add Human Services Add Immigration Add Infrastructure Protection Add Infrastructure Protection Add Intelligence Add Intelligence Add Justice Add Mantime Add Maritime	s can be slow to load for large namespaces): Download Subset schema archive Download Chemical, Biological, Radiological, and Nuclear (CBRN) Download Children, Youth and Family Services Download Emergency Management Download Emergency Management Download Immigration Download Infrastructure Protection Download Infrastructure Protection Download International Trade Download International Trade Download Maritime Download Maritime

Figure: SSGT Change Release Version



Add a Property to the Current Subset

- 1. Click the <u>Add</u> button next to a property to add that property to the current subset.
- 2. The property added appears in the <u>Elements</u> section.
- 3. Additionally, the selected type of that property (and all required parent types) will appear in the <u>Types</u> section.

Note: Sub-properties of a type (or parent type) will **NOT** be added automatically. Sub-properties must be added individually or by using the add all function.

Note: In the current subset, properties or types in BOLD (#2, below) indicate components directly selected to be added to the subset by the user. Components with normal font weight indicate automatically added dependencies (#3, below), required by at least one BOLD component.



Figure: SSGT Adding a Property to the Current Subset

Add a sub-property of a type to the current subset

Note: Because all properties are global in the NIEM Data Model, sub-properties of a type may be added to the current subset WITHOUT also adding them as sub-properties of their parent type.

- 1. Click the <u>plus-sign</u> icon next to a property to expand all the sub-properties for the type of that property.
- 2. Click the <u>Add</u> button next to a sub-property to add that sub-property to the current subset.
- 3. The property added appears in the <u>Elements</u> section.
- 4. Additionally, the property also appears as a sub-property of the type in the <u>Types</u> section.



Figure: SSGT Adding a Sub-Property to the Current Subset

WARNING: Sub-properties of a type added from outside of a hierarchical type are **NOT** added as sub-properties of that type:

	\sim
	🔍 Search 🛛 🗟 Generate Documents 🖉 Options
Schema Subset [Hide Edit Cardinality] Data Model Search Show Advanced 🕞
	Search for a Property organization Search
Турез	
The schema subset includes the following type	Add nc:OrganizationTaxIdentification (nc : IdentificationType) details -
definitions; those requested are in bold:	Add nc:OrganizationTerminationDate (nc : DateType) details -
nc:LocationType	AddvizationUnit (nc : OrganizationType) details -
elements:	nizationUnitAssociationAugmentationPoint abstract details -
nc:OrganizationLocation (0,∞)	Add nc:OrganizationUnitName (nc : TextType) details -
nc:TextType	nc:PassportIssuingOrganization (nc : OrganizationType) details -
niem-xs:string	Add nc:PersonCriminalOrganizationAssociation (nc : PersonOrganizationAssociationType) details -
xs:string	Add nc:PersonOrganizationAffiliationAssociation (nc: PersonOrganizationAssociationType) details -
Attributes	Add nc:PersonOrganizationAssociation (nc : PersonOrganizationAssociationType) details -
(The schema subset does not include any attribute	Add nc:PersonOrganizationAssociationAugmentationPoint abstract details -
	Add nc:ReportingOrganizationText (nc : TextType) details -
Elements	Add nc:RoleOfOrganization (nc : OrganizationType) details -
The schema subset includes the following element	E - Add scr:DocumentOrganizationAssociation (scr : DocumentOrganizationAssociationType) details -
decidrations, those requested are in bold.	Add scr:DocumentOrganizationAssociationAugmentationPoint abstract details -
nc:OrganizationLocation (nillable="true")	Add scr:OrganizationAddressAssociation (scr : OrganizationAddressAssociationType) details -
nc: OrganizationName (ninable= true)	Add scr:OrganizationAddressAssociationAugmentationPoint abstract details -
nc:OrganizationUnitName (nillable="true")	Add scr:OrganizationAddressEffectiveDate (nc : DateType) details -
	Add scr:OrganizationAddressEndDate (nc : DateType) details -
	Add scr:OrganizationAugmentation (scr : OrganizationAugmentationType) details -
	Add scr:OrganizationClassificationCategory abstract details -
	Add scr:OrganizationClassificationCategoryCode (scr : OrganizationCategoryCodeType) details -

In the above example:

- 5. Property OrganizationUnitName (which is a sub-property of OrganizationType) is added to the subset outside of the type
- 6. The property OrganizationUnitName appears in the current subset
- 7. The property OrganizationUnitName is NOT added to the sub-properties of OrganizationType

Add all sub-properties of a type to the current subset

- 1. Click the <u>plus-sign</u> icon next to a property to expand all the sub-properties for the type of that property.
- 2. Click the <u>Add</u> button next to the <u>Add All</u> label to add all properties below the button.
- 3. All properties are added to the current subset.
- 4. Additionally, all properties are added as sub-properties of that type.



Figure: SSGT Adding All Properties to the Current Subset

Add a type to the current subset

1. Click the Add button next to a type to add that type to the current subset.

2. The selected type and all parent types required will appear in the left subset window.

Note: Sub-properties of any type added to the current subset will NOT be added automatically. Sub-properties must still be added individually or by using the add all function.

	Search 🛛 🕁 Generate Documents 🖉 Options
Schema Subset [Hide Edit Cardinality] (Data Model Search Show Advanced 🕤
	Search for a Type organization Search
Types	
The schema subset includes the following type definitions: those requested are in hold:	Add cyfs : ChildSupportEnforcementOrganizationType show inheritance
	. Add cyfs : JuvenileEducationOrganizationAssociationType show inheritance
nc:EntityType	. Add cyfs : OrganizationAugmentationType
nc:OrganizationType	Add it : RoleOfOrganizationCategoryType
Attributes	Add j : ActivityCriminalOrganizationAssociationType show inheritance
(The schema subset does not include any attribute declarations.)	Add j : CriminalOrganizationType
	Add j : ObligationDueToOrganizationAssociationType show inheritance
Elements	Add j : ObligationOrganizationAssociationType show inheritance
(The schema subset does not include any element declarations)	Add j : OrganizationAlternateNameType
	Add j : OrganizationAugmentationType
	Add jc3iedm : MilitaryOrganizationCategoryServiceCodeSimpleType details -
	Add jc3iedm : MilitaryOrganizationCategoryServiceCodeType details -
	Add mo : OperationPlanTaskOrganizationType
	Add nc : ActivityOrganizationAssociationType show inheritance
	Add nc : OrganizationAssociationType show inheritance
	Add InizationFacilityAssociationType show inheritance
	Add anizationLocationAssociationType show inheritance
	Add hc : OrganizationType
	Add nc : OrganizationUnitAssociationType show inheritance
	Add nc : PersonOrganizationAssociationType show inheritance
	Add ndex : OrganizationCategoryCodeSimpleType details
	Add ndex : OrganizationCategoryCodeType details
	Add nlets : OrganizationCategoryCodeSimpleType details
	Add nlets : OrganizationCategoryCodeType details
	Add scr : DocumentOrganizationAssociationType show inheritance
	First Previous Next Last Displaying 1-25 of 87 results
	Page 1 of 4

Figure: SSGT Adding to the Current Subset

Delete a type or property from the current subset

- 1. Check the check-box next to a component to select it for removal from the current subset.
- 2. Click the <u>Delete</u> button to remove all selected components and dependencies from the current subset.

Note: If there is no check-box present to the left of a component, then that component is a required dependency and may not be removed manually. To remove a component without a check-box, delete all components requiring that dependency.

(1) Schema Subset	[Hide Edit Cardinality]
Types 2 The schema	the following type
definitions; those requested	are in bold:
nc:EntityType	
□	уре
nc:TextType niem-xs:string	
xs:string	
Attributes	
(The schema subset does no declarations.)	t include any attribute
Elements	
The schema subset includes declarations; those requeste	the following element d are in bold:
	ation (nillable="true")
nc:OrganizationU	ne (nillable="true") nit (nillable="true")

Figure: SSGT Deleting from the Current Subset

Clear the Current Subset

• Click the <u>Clear Subset</u> button.



Figure: SSGT Clearing the Current Subset

Edit cardinalities of all properties in the current subset

Note: To provide maximum flexibility to developers, cardinalities of NIEM reference schema sub-properties default to <u>minOccurs="0"</u> and <u>maxOccurs="unbounded"</u>. IES Developers should ensure that the appropriate cardinalities are assigned to all sub-properties for their exchange prior to generating the subset.

Click the <u>Edit Cardinality</u> link.



Figure: Edit Cardinality

- 1. Enter the minimum cardinality in the minOccurs text-box.
- 2. Enter the maximum cardinality in the maxOccurs text-box.
- 3. Click the Submit for all properties button.

		(Search	Conerate Doo	cuments Opt	tions
Schema	ubset []	Return to Subse		2	(3)	12
Change t	e cardinality of every compor	nent to (Save	5	
Types						
The sche	a subset includes the following	ng type				
definition	those requested are in bold	:				
÷	:OrganizationType					
	elements:					
	elements:					
	nc:OrganizationLocation	n (0 📀 , 🗠	(≎			

Figure: Edit Cardinality for All Properties

Edit Cardinalities of Properties in the Current Subset

Note: To provide maximum flexibility to developers, most cardinalities of NIEM reference schema sub-properties default to

<u>minOccurs="0"</u> and <u>maxOccurs="unbounded"</u>. IEPD Developers should ensure that the appropriate cardinalities are assigned to all sub-properties for their exchange prior to generating the subset.

Click the <u>Edit Cardinality</u> link.

	\$
Types	
The schema subset includes the follo definitions; those requested are in bo	wing type old:
nc:EntityType	
nc:LocationType	
nc:OrganizationType	
nc:TextType	
niem-xs:string	
xs:string	
Attributes	
(The schema subset does not include	any attribute
declarations.)	
declarations.) Elements The schema subset includes the follo declarations; those requested are in	wing element bold:
declarations.) Elements The schema subset includes the follo declarations; those requested are innc:OrganizationLocation (nil	wing element bold: lable="true")
declarations.) Elements The schema subset includes the follo declarations; those requested are in nc:OrganizationLocation (nill nc:OrganizationName (nillat	wing element bold: lable="true") ble="true")

- 1. Click the <u>plus-sign</u> icon next to a type, or the <u>Expand all</u> label to expand all types.
- 2. Select a value from the min: drop-down box to assign the minimum cardinality.
- 3. Select a value from the max: drop-down box to assign the maximum cardinality.
- 4. A message banner at the top of the dialog echoes the new settings.

	🔾 Sea	rch Generate Documents	Options
Schema Subset	[Return to Subset]		
Change the cardinality of every com	ponent to () Save	
definition for the following of the foll	old: 2)	
elements:	ion 2 and a		
elements:			

Figure: Edit Cardinality for a Property

Options Page

Click the <u>Options</u> link to display the options page.

		Search Generate Documents Options
Schema Subset [Hide Edit Cardinality]	Wantlist Options	
	Current Release: NIEM-3.1	
Vnec	Current Nillable Default Value: true	
he schema subset includes the following type	NOTE: If you change the current release or change t subset. Save your current subset if you wish to keep	he current nillable default value, the system will clear your it.
efinitions; those requested are in bold:	Change Release to NIEM-3.1	
nc:EntityType	Change Nillable Default Value to 🧿 True 🔿 False	
nc:OrganizationType	A Load Wantlist	
nc:TextType	Select wantlist XML file to upload and edit:	
niem-xs:string	Filename: Browse No file se	
xs:string	Hendric. Diowae No me se	
Attributes	 Replace current Subset 	
	Merge with current Subset	
The schema subset does not include any attribute leclarations.)	Load Wantlist	
Elements	Download Wantlist Schema Specification	
The schema subset includes the following element	Download Wantlist Schema Specification	
declarations; those requested are in bold:		
nc:OrganizationLocation (nillable="true")	Namespaces	
nc:OrganizationName (nillable="true")	Add Everything from a Namespace to your subset (T	his can be slow to load for large namespaces):
nc:OrganizationUnit (nillable="true")	Add to subset	Download subset schema archive
	Add Chemical, Biological, Radiological, and Nuclear (CBRN)	Download Chemical, Biological, Radiological, and Nuclear (CBRN)
	Add Children, Youth and Family Services	Download Children, Youth and Family Services
	Add Emergency Management	Download Emergency Management
	Add Human Services	Download Human Services
	Add Immigration	Download Immigration
	Add Infrastructure Protection	Download Infrastructure Protection
	Add Intelligence	Download Intelligence
	Add International Trade	Download International Trade
	Add Justice	Download Justice
	Add Maritime	Download Maritime
	Add MilOps	Download MilOps
	Add Screening	Download Screening

Figure: SSGT Options Page

Add all NIEM components to current subset

Click the <u>Add NIEM</u> link to add ALL NIEM components to the current subset. **Note:** Due to the large number of components, this option may time-out before the operation completes. All NIEM content may downloaded as either a Microsoft Excel spreadsheet (XLS) from the NIEM web page.

Options



Figure: SSGT Add All NIEM

Generate Documents

- 1. Click the <u>Generate Documents</u> link to display the generate documents page.
- 2. Click the <u>Save current wantlist to a file</u> link to save the current subset to an eXtensible Markup Language (XML) wantlist file (allowing for later recall).

Generate Documents	S
O Schema Subset [Hide Edit Cardinality]	Generate Subset Schema
Types The schema subset includes the following type definitions; those requested are in bold: Image: Image	 Include Documentation? yes no Generate To: Save Subset Schema to a file Generate Wantlist Generate To: Save current wantlist to a file Generate Spreadsheet from subset 3
(The schema subset does not include any attribute declarations.) Elements The schema subset includes the following element declarations; those requested are in bold: nc:OrganizationLocation (nillable="true") nc:OrganizationName (nillable="true")	Save current subset to a spreadsheet file

Figure: Generate Documents Page

Options Page

Click the <u>Options</u> link to display the options page.

		Search Generate Documents Options
Schema Subset [Hide Edit Cardinality] () Wantlist Options	
	Current Release: NIEM-3.1	
V V	Current Nillable Default Value: true	
ypes	NOTE: If you change the current release or change the	current nillable default value, the system will clear your subset.
he schema subset does not include any type	Save your current subset if you wish to keep it.	
minitions.)	Change Release to NIEM-3.1	0
ttributes	Change Nillable Default Value to 🧿 True 🔵 False	
he schema subset does not include any attribute		
eclarations.)	(Load Wantlist	
ements	Select wantlist XML file to upload and edit:	
he schema subset does not include any element	Filename: Browse No file se	
eclarations.)	Replace current Subset	
	Merge with current Subset	
	Lead Wastlist	
	Download Wantlist Schema Specification	
	Download Wantlist Schema Specification	
	Namespaces	and he alou to load for lover newspapers).
	Add Everything from a Namespace to your subset (This Add to subset	Download subset schema archive
	Add Biometrics	Download Biometrics
	Add Chemical, Biological, Radiological, and Nuclear (CBRN)	Download Chemical, Biological, Radiological, and Nuclear (CBRN)
	Add Children, Youth and Family Services	Download Children, Youth and Family Services
	Add Emergency Management	Download Emergency Management
	Add Human Services	Download Human Services
	Add Immigration	Download Immigration
	Add Infrastructure Protection	Download Infrastructure Protection
	Add Intelligence	Download Intelligence
	Add International Trade	Download International Trade
	Add Justice	Download Justice
	Add Maritime	Download Maritime
	C effect D C L C T C C C C C C C C C C C C C C C C	

Figure: SSGT Options Page

Load Wantlist

- 1. Click <u>Choose File</u> button.
 - 1. Select a wantlist file previously saved from Schema Subset Generation Tool (SSGT) from local machine using browser dialog.
- 2. Select EITHER:
 - 1. <u>Replace current Subset</u> radio-button to replace the current subset with the wantlist file.

- 2. <u>Merge with current Subset</u> radio-button to merge the current subset with the wantlist file.
- 3. Click Load Want List button.

		0 10 10
		Search Generate Documents Option
Schema Subset [Hide Edit Cardinalit	y] 🕕 Wantlist Options	
	Current Release: NIEM-3.1	
	Current Nillable Default Value: true	
pes	NOTE: If you change the current release or change the	he current nillable default value, the system will clear your
e schema subset includes the following type	subset. Save your current subset if you wish to keep	it.
finitions; those requested are in bold:	Change Release to NIEM-3 1	
nc:entityType	Change Nillable Default Value to 📀 True 🔾 False	
nc:LocationType		
nc:OrganizationType	al oad Wantlist	
nc:TextType	Select wantlict XML fileter and edit:	
niem-xs:string	Select wanting continue to a share of the	
xs:string	Filename: Browse No file se	
tributes		
he schema subset does not include any attribute	Areplace current Subset Merge with current Subset Load Wantlist	
he schema subset does not include any attribute iclarations.)	Merce with current Subset	
the schema subset does not include any attribute sclarations.) ements ne schema subset includes the following element	Devenload Wantlist Schema Specification	
the schema subset does not include any attribute cclarations.) ements eschema subset includes the following element cclarations; those requested are in bold:	Merce with current Subset Load Wantlist Download Wantlist Download Wantlist Schema Specification	
the schema subset does not include any attribute clarations.) ements te schema subset includes the following element clarations; those requested are in bold: nc:OrganizationLocation (nillable="true")	Merce with current Subset Load Wantlist Download Wantlist Download Wantlist Schema Specification Mamespaces	
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he schema subset does not include any attribute cclarations.) ements eschema subset includes the following element cclarations; those requested are in bold:	Acplace current Subset Merce with current Subset Load Wantlist Ownload Wantlist Ownload Wantlist Ownload Wantlist Schema Specification Warespaces Add Everything from a Namespace to your subset (TI Add to subset Add Chemical, Biological, Radiological, and Nuclear (CBRN) Add Children, Youth and Family Services Add Emergency Management Add Human Services	his can be slow to load for large namespaces): Download Subset schema archive Download Biometrics Download Chemical, Biological, Radiological, and Nuclear (CBRN) Download Children, Youth and Family Services Download Human Services
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he schema subset does not include any attribute clarations.) ements e schema subset includes the following element clarations; those requested are in bold:	Add Everything from a Namespace to your subset Add Everything from a Namespace to your subset (TI Add Chemical, Biological, Radiological, and Nuclear (CBRN) Add Children, Youth and Family Services Add Emergency Management Add Human Services Add Immigration Add Infrastructure Protection	his can be slow to load for large namespaces): Download subset schema archive Download Biometrics Download Chemical, Biological, Radiological, and Nuclear (CBRN) Download Children, Youth and Family Services Download Emergency Management Download Human Services Download Immigration Download Infrastructure Protection
he schema subset does not include any attribute clarations.) ements e schema subset includes the following element clarations; those requested are in bold: 	Acpiace current Subset Merce with current Subset Load Wantlist Specification Download Wantlist Specification Mamespaces Add Everything from a Namespace to your subset (TI Add to subset Add Biometrics Add Chemical, Biological, Radiological, and Nuclear (CBRN) Add Children, Youth and Family Services Add Immigration Add Infrastructure Protection Add Infrastructure Protection Add Intelligence	his can be slow to load for large namespaces): Download subset schema archive Download Biometrics Download Chemical, Biological, Radiological, and Nuclear (CBRN) Download Children, Youth and Family Services Download Children, Youth and Family Services Download Human Services Download Human Services Download Infrastructure Protection Download Infrastructure Protection Download Intelligence
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he schema subset does not include any attribute cclarations.) ements eschema subset includes the following element cclarations; those requested are in bold:	Acplace current Subset Merce with current Subset Load Wantlist Specification Download Wantlist Schema Specification Mamespaces Add Everything from a Namespace to your subset (Ti Add to subset Add Biometrics Add Chemical, Biological, Radiological, and Nuclear (CBRN) Add Children, Youth and Family Services Add Emercy Management Add Human Services Add International Add International Trade Add Instructure Protection	his can be slow to load for large namespaces): Download Subset schema archive Download Simetrics Download Chemical, Biological, Radiological, and Nuclear (CBRN) Download Children, Youth and Family Services Download Emergency Management Download Immigration Download Infrastructure Protection Download Infrastructure Protection Download Infrastructure Protection Download Infrastructure Protection Download International Trade Download Justice
<pre>introducts interpretation control includes and attribute cclarations.) ements eschema subset includes the following element cclarations; those requested are in bold:</pre>	Add Everything from a Namespace to your subset Add Everything from a Namespace to your subset (Ti Add Intelligence Add Intelligence Add Intelligence Add Justice Add Maritime	his can be slow to load for large namespaces): Download subset schema archive Download Biometrics Download Chemical, Biological, Radiological, and Nuclear (CBRN) Download Children, Youth and Family Services Download Infrastructure Protection Download Infrastructure Protection Download International Trade Download Justice Download Justice Download Maritime

Figure: SSGT Load Wantlist

Options Page

Click the <u>Options</u> link to display the options page.

		Search Generate Documents Options	
Schema Subset [Hide Edit Cardinali	ty] 🕕 Wantlist Options		
	Current Release: NIEM-3.1		
	Current Nillable Default Value: true		
pes	NOTE: If you change the current release or change the	current nillable default value, the system will clear your subset.	
he schema subset does not include any type	Save your current subset if you wish to keep it.		
finitions.)	Change Release to NIEM-3.1		
tributes	Change Nillable Default Value to 💿 True 🔵 False		
he schema subset does not include any attribute cclarations.)	and Wantlist		
omente	Select wantlist XML file to upload and edit:		
Enicits	Filename: Browse No file se		
he schema subset does not include any element	Thenane. Dowse No me se		
ecial acions.)	Replace current Subset		
	O Merge with current Subset		
	Load Wantlist		
	Download Wantlist Schema Specification		
	Download Wantlist Schema Specification		
	(i) Namespaces		
	Add Everything from a Namespace to your subset (This	s can be slow to load for large namespaces):	
	Add Biometrics	Download Biometrics	
	Add Chemical, Biological, Radiological, and Nuclear (CBRN)	Download Chemical, Biological, Radiological, and Nuclear (CBRN)	
	Add Children, Youth and Family Services	Download Children, Youth and Family Services	
	Add Emergency Management	Download Emergency Management	
	Add Human Services	Download Human Services	
	Add Immigration	Download Immigration	
	Add Infrastructure Protection	Download Infrastructure Protection	
	Add Intelligence	Download Intelligence	
	Add International Trade	Download International Trade	
	Add Justice	Download Justice	
	Add Maritime	Download Maritime	
	Add MilOps	Download MilOps	

Figure: SSGT Options Page

Download Wantlist Schema Specification

 Click the <u>Download Wantlist Schema Specification</u> link to download a XSD Schema file for Schema Subset Generation Tool (SSGT) wantlist files.

Options



Figure: SSGT Download Wantlist XSD

Generate Documents

- 1. Click the <u>Generate Documents</u> link to display the generate documents page.
- 2. Click the <u>Save current subset to a spreadsheet</u> file to save

comprehensive type information about the current subset to an Excel XLS file.

Generate Documents	S
Schema Subset [Hide Edit Cardinality]	Generate Subset Schema
	⑧ Include Documentation? ♥yes ○ no
Types The schema subset includes the following type definitions; those requested are in bold:	Generate To: Save Subset Schema to a file
	Generate Wantlist
xs:string Attributes	Generate Spreadsheet from subset
(The schema subset does not include any attribute declarations.)	Save current subset to a spreadsheet file
Elements	
The schema subset includes the following element declarations; those requested are in bold:	
<pre>- nc:OrganizationName (nillable="true") - nc:OrganizationUnit (nillable="true")</pre>	

Figure: Generate Documents Page

Generate a subset from the current subset

- 1. Click Generate Documents link to display the generate documents page.
- 2. Click the <u>Include documentation? yes/no</u> radio-button to toggle inclusion data definitions (xsd:documentation) in the generated subset **[Zip]** file.
- 3. Click the link <u>Save Subset Schema to a file</u> to generate a subset **[Zip]** file from the currently selected subset.

Generate Documen	ts
Schema Subset [Hide Edit Cardinality]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]] []]]]]]]]]]]]]]] []]]]]]] []] []] []] []]] []] []] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [] [Search Generate Documents Options
Types The schema subset includes the following type definitions; those requested are in bold: Comparison in the following type Comp	Generate To: Save Subset Schema to a file Generate Wantlist Generate To: Save current wantlist to a file
Attributes	Generate Spreadsheet from subset OGenerate To:
(The schema subset does not include any attribute declarations.) Elements	Save current subset to a spreadsheet file
The schema subset includes the following element declarations; those requested are in bold: nc:OrganizationLocation (nillable="true") nc:OrganizationName (nillable="true") nc:OrganizationUnit (nillable="true")	

Figure: SSGT Generate Subset

Browsing the Subset

 After download the subset and extracting the zip file, the subset contents may be browsed:

		-				x		
Example Subset	_		▼ 4 ₇	Search Example Subset	_	٩		
Organize 🔻 New folder				u V Rai	•	?		
★ Favorites ↓ Libraries Documents Documents Music Pictures Videos Local Disk (C:) Shared Folders (\	wantlist	xml-catalo g						
3 items								
Figure: SSGT Browsing the Subset								

Editing Contents

• Any XML tool may be used to browse the Schema files:



Figure: SSGT Browsing the Subset

🔞 Altova XMLSpy - [niem-core] - • × Eile Edit Project XML DTD/Schema Schema design XSL/XQuery Authentic DB Convert View Browser Tools Window Help - 8 × Project 中 × 目 Components ąх Examples element (5) complexType (10)
 simpleType (45)
 attribute (4)
 attributeGroup (1) PXF (Portable XML Forms) Authentic Scripting International
 Purchase Order
 MapForce nc:OrganizationType + attributes E hdustryStandards structures:ObjectAugmentation. E T XBRL Examples OrganizationUnit on point for ObjectType 🕀 🛅 EPUB Examples nc:OrganizationLocation ⊕ Calery ⊕ Calery ⊞ Calery XSLT2 2.3 ⊕ Contraction Diffice 2007
⊕ Contraction Diffice 2007 of an orga nc:OrganizationName Globals Namespaces | Identity co... A name of an organ Details ąх Info ąх OrganizationUnit nc:OrganizationType • type content complex Text Grid Schema WSDL lerivedB Authentic Browser nixed iem-core 4 Þ • • ubstGro abstract Details Find Find next Replace Facets л×

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Facets

CAP NUM SCRL

In this example, Altova XMLSpy is used to display niem-core.xsd: •

Figure: SSGT Display Schema File Using Altova XML Spy

Messages | XPath/XQuery | XSL Outline | Find in Files | Find in Schemas | Find in XBRL | Charts

XMLSpy Professional Edition v2015 rel. 3 sp1 (x64) Registered to Name (GTRI) ©1998-2015 Altova GmbH

Info