Definition of Power, War, Religion and Relations Ontology Version 1.0

Version: 1.0

2025/02/12

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Introduction

Scope

Extending the Art and Architectural Argumentation Ontology (AAAo), this project builds a set of classes and relations that enable the modelling of historical information pertaining to the exercise of power, the practice of religion, and the creation and maintenance of social relations through communicative acts.

Compatibility and Nomenclature

This unofficial extension of the CIDOC CRM is formulated in relation to:

CRM 7.1.3
LRMoo 1.0
CRMsci 2.0
AAAo 2.0

The specification consists of a set of declarations for formalized classes and properties that extend the CIDOC CRM and the above official extensions.

Adopting the conventions of the CIDOC CRM each class and property have been given an identifier in addition to their names. The naming convention adopted for this extension is:

WE = class
WP = property

The choice of these names was arbitrary, making a conceptual connection with the official CRM representation while clearly distinguishing the new classes and properties from those of either CRM base or its official extensions.

Namespace: https://ontology.swissartresearch.net/pwro/

Maintenance and Archiving

PWRo is an actively maintained ontology. It is our aim to develop publicly and participatively, learning from and engaging with the scholarly community that adopts it. Towards this end we maintain the ontology with the following processes and relative tools.

Ontology Development

We adopt the OntoMe tool developed by LARHRA to manage the ontology and produce editions. This ensures a consistent management of the ontology and provides a public space to engage in revisions.

The maintenace space for the ontology can be found here: https://ontome.net/project/208

Please note, at time of publishing, OntoME is not capable of producing complete, provenanced RDF serializations, so please only use the official RDF for this standard stored on our github. See below.

Issue Management and Revision Storage

We adopt github as a platform for inviting and managing issues related to the ontology as well as providing an active place to be able to access the latest edition of the ontology, its specification and relevant documentation. The address for the github repository is: https://github.com/swiss-art-research-net/pwro

Acknowledgements

Status

Published version

Power, War, Religion and Relations Ontology ongoing class hierarchy, aligned with portions from the CIDOC CRM version 7.1.3, Art and Architectural Argumentation Ontology Version 2.0, CRMsci version 2.0, LRMoo 1.0 and the CIDOC CRM class hierarchies

This class hierarchy lists:

- all classes declared in Power, War, Religion and Relations Ontology ongoing

- all classes declared in CIDOC CRM version 7.1.3 that are declared as superclasses of classes declared in the Power, War, Religion and Relations Ontology ongoing

- all classes declared in Art and Architectural Argumentation Ontology Version 2.0 version 2.0 that are declared as superclasses of classes declared in the Power, War, Religion and Relations Ontology ongoing

- all classes declared in CRMsci version 2.0 version 2.0 that are declared as superclasses of classes declared in the Power, War, Religion and Relations Ontology ongoing

- all classes declared in LRMoo 1.0 version 1.0 that are declared as superclasses of classes declared in the Power, War, Religion and Relations Ontology ongoing

- all classes declared in CIDOC CRM version 7.1.3 that are either domain or range for a property declared in the Power, War, Religion and Relations Ontology ongoing

- all classes declared in Art and Architectural Argumentation Ontology Version 2.0 version 2.0 that are either domain or range for a property declared in the Power, War, Religion and Relations Ontology ongoing

- all classes declared in CRMsci version 2.0 version 2.0 that are either domain or range for a property declared in the Power, War, Religion and Relations Ontology ongoing

- all classes declared in LRMoo 1.0 version 1.0 that are either domain or range for a property declared in the Power, War, Religion and Relations Ontology ongoing

Table 1: List of classes in class hierarchy.

E1	CRM Entity							
E2	-	Temporal Entity						
E4	-	-	Period					
E5	-	-	-	Event				
E7	-	-	-	-	Activity			
ZE53	-	-	-	-	-	Symbolic Activity		
WE1	-	-	-	-	-	-	Exercise of Authority	
WE2	-	-	-	-	-	-	-	Sovereignty
WE6	-	-	-	-	-	-	Attack	
WE15	-	-	-	-	-	-	Act of Authority	
E9	-	-	-	-	-	Move		

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WE12 -    -    -    -    -    -         Sending
WE7  -    -    -    -    -    -    -         Voyage
WE9  -    -    -    -    -    Destructive Physical Modification
WE8  -    -    -    -    -    -    Intentional Destruction
WE10 -    -    -    -    -    Ameliorative Physical Modification
E11  -    -    -    -    -    Modification
E12  -    -    -    -    -    -    Production
F28  -    -    -    -    -    -    -    Expression Creation
WE11 -    -    -    -    -    -    -    -    Correspondence Event
E65  -    -    -    -    -    Creation
F28  -    -    -    -    -    -    Expression Creation
WE11 -    -    -    -    -    -    -    Correspondence Event
WE13 -    -    -    -    -    Visit
WE14 -    -    -    -    -    Dwelling
E6   -    -    -    -    Destruction
WE9  -    -    -    -    -    Destructive Physical Modification
WE8  -    -    -    -    -    -    Intentional Destruction
E77  -    Persistent Item
E70  -    -    Thing
E72  -    -    -    Legal Object
E18  -    -    -    -    Physical Thing
E19  -    -    -    -    -    Physical Object
E20  -    -    -    -    -    -    Biological Object
WE3  -    -    -    -    -    -    -    Embodied Actor
WE4  -    -    -    -    -    -    -    -    Manifest Group
WE5  -    -    -    -    -    -    -    -    Animal
E21  -    -    -    -    -    -    -    -    -    Person
E77  -    Persistent Item
E39  -    -    Actor
WE3  -    -    -    Embodied Actor
WE4  -    -    -    -    Manifest Group
WE5  --   -    -    -    Animal
E21  -    -    -    -    -    Person
E74  -    -    -    Group
WE4  -    -    -    -    Manifest Group
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List of external classes used in Power, War, Religion and Relations Ontology ongoing

Table 2: List of external classes grouped by model and ordered by model (exception: CRMbase always goes first) and then by class identifier.

Class identifier	Class name	Model	Version
E6	Destruction	CIDOC CRM	7.1.3
E7	Activity	CIDOC CRM	7.1.3
E9	Move	CIDOC CRM	7.1.3
E18	Physical Thing	CIDOC CRM	7.1.3
E20	Biological Object	CIDOC CRM	7.1.3
E21	Person	CIDOC CRM	7.1.3
E39	Actor	CIDOC CRM	7.1.3
E53	Place	CIDOC CRM	7.1.3
E74	Group	CIDOC CRM	7.1.3
F28	Expression Creation	LRMoo: Library Reference Model object-	1.0

		oriented	
ZE36	Persons	Art and Architectural Argumentation Ontology	2.0
ZE37	Population	Art and Architectural Argumentation Ontology	2.0
ZE53	Symbolic Act	Art and Architectural Argumentation Ontology	2.0

Power, War, Religion and Relations Ontology ongoing property hierarchy, aligned with portions from the CIDOC CRM version 7.1.3, Art and Architectural Argumentation Ontology Version 2.0, CRMsci version 2.0, LRMoo 1.0 and the CIDOC CRM property hierarchies

This property hierarchy lists:

- all properties declared in Power, War, Religion and Relations Ontology ongoing

- all properties declared in CIDOC CRM version 7.1.3 that are declared as superproperties of properties declared in the Power, War, Religion and Relations Ontology ongoing

- all properties declared in Art and Architectural Argumentation Ontology Version 2.0 version 2.0 that are declared as superproperties of properties declared in the Power, War, Religion and Relations Ontology ongoing

- all properties declared in CRMsci version 2.0 version 2.0 that are declared as superproperties of properties declared in the Power, War, Religion and Relations Ontology ongoing

- all properties declared in LRMoo 1.0 version 1.0 that are declared as superproperties of properties declared in the Power, War, Religion and Relations Ontology ongoing

Table 3: Property Hierarchy

Property id	Property Name	Entity – Domain	Entity - Range
WP1	had geographic scope (was geographic cope of)	WE1 Exercise of Authority	E53 Place
WP5	was manifestation of (manifested in)	WE4 Manifest Group	E74 Group
WP6	had intended target (was intended target of)	WE6 Attack	E18 Physical Thing
WP8	had declared intermediary place (was declared intermediary place of)	WE7 Voyage	E53 Place
WP9	had declared destination (was declared destination of)	WE12 Sending	E53 Place
WP12	had addressee (was addressee of)	WE11 Correspondence Event	ZE36 Persons
WP13	had declared origin (was declared origin of)	WE12 Sending	E53 Place
P7	took place at (witnessed)	E4 Period	E53 Place
WP14	- visited (was visited through)	WE13 Visit	E53 Place
WP15	- dwelt in (was dwelt in through)	WE14 Dwelling	E53 Place
P11	had participant (participated in)	E5 Event	E39 Actor
WP2	- had authority over (was subject to authority of)	WE1 Exercise of Authority	ZE36 Persons

WP4	- - had subject population (was subject population of)	WE2 Sovereignty	ZE37 Population
P12	occurred in the presence of (was present at)	E5 Event	E77 Persistent Item
WP10	- diminished (was diminished by)	WE9 Destructive Physical Modification	E18 Physical Thing
WP11	- ameliorated (was ameliorated by)	WE10 Ameliorative Physical Modification	E18 Physical Thing
WP16	- had combatant (was combatant in)	WE6 Attack	WE3 Embodied Actor
P14	carried out by (performed)	E7 Activity	E39 Actor
WP3	- had sovereign (exercised authority of)	WE2 Sovereignty	E39 Actor
WP7	- was undertaken by (undertook)	WE7 Voyage	WE3 Embodied Actor
WP16	- had combatant (was combatant in)	WE6 Attack	WE3 Embodied Actor
P25	moved (moved by)	E9 Move	E19 Physical Object
WP7	- was undertaken by (undertook)	WE7 Voyage	WE3 Embodied Actor

List of external properties used in Power, War, Religion and Relations Ontology ongoing

Table 4: List of external properties grouped by model and ordered by model and then by property identifier.

P7	took place at (witnessed)	CIDOC CRM	7.1.3
P11	had participant (participated in)	CIDOC CRM	7.1.3
P12	occurred in the presence of (was present at)	CIDOC CRM	7.1.3
P14	carried out by (performed)	CIDOC CRM	7.1.3
P25	moved (moved by)	CIDOC CRM	7.1.3

Power, War, Religion and Relations Ontology ongoing Class Declarations

The classes are comprehensively declared in this section using the following format:

- Class names are presented as headings in bold face, preceded by the class' unique identifier;
- The line "Subclass of:" declares the superclass of the class from which it inherits properties;
- The line "Superclass of:" is a cross-reference to the subclasses of this class;
- The line "Scope note:" contains the textual definition of the concept the class represents;
- The line "Examples:" contains a bulleted list of examples of instances of this class.
- The line "Properties:" declares the list of the class's properties;
- Each property is represented by its unique identifier, its forward name and the range class that it links to, separated by colons;
- Inherited properties are not represented;

WE1 Exercise of Authority

Subclass of:

> ZE53 Symbolic Act

Superclass of:

> WE2 Sovereignty

Scope note:

> This class comprises the activities involved in the exercise of power by a group or individual over some other persons and potentially some place. The exercise of authority is the active assertion of an individual or group's power over the related persons and/or place through physical and/or symbolic acts which are meant to and actually do maintain the authority of the individual or group exercising that power.
>
> An instance of exercise of authority comes into existence through its assertion on the part of that power, which may bring about the authority of the individual or group asserting in question (e.g.: a declaration of authority by a party over some group or territory) or may represent a manifestation of the socially agreed upon application of the authority of an individual or group and their assumption of that authority (e.g.: appointment).
>
> Instances of exercise of authority may cease to exist either through a counter action on the part of another (e.g.: seizing control of a ship), or through the socially agreed upon transfer of power (e.g.: end of term or removal from office). Moreover, the death of the individual or dissolution of the group exercising the authority in question may also brings about the end of existence of the exercise of authority.

Examples:
- The term of Auguste Escoffier (E21) as chef at the Savoy Hotel London (E74), 1890-1897 (https://en.wikipedia.org/wiki/Auguste_Escoffier)
- Eisenhower's (E21) command of military members of the North African Theatre of Operations (E74), 1942-1944 (https://en.wikipedia.org/wiki/Dwight_D._Eisenhower)

Properties:

> WP1 had geographic scope (was geographic scope of): E53 Place
> WP2 had authority over (was subject to authority of): ZE36 Persons

WE2 Sovereignty

Subclass of:
> WE1 Exercise of Authority

Scope note:
> This class comprises the activities involved in the exercise of power by a ruling group or individual over a population and, typically, a territory. Sovereignty consists in the active assertion of the sovereign's power over the related population and territory through physical and/or symbolic acts which are meant to and actually do maintain the authority of that sovereign.
> An instance of sovereignty may come into existence either through its assertion on the part of the sovereign, which may bring about the rule of the sovereign (e.g.: a revolution, coup d'etat) or may come about constitutionally through the application of pre-agreed terms of the declaration of a new sovereign and their assumption of sovereignty (e.g.: coronation procedures).
> Instances of sovereignty may cease to exist either through a counter action that successfully challenges that sovereignty (e.g., a popular revolution), through the dissolution of general social order, or constitutionally through pre-agreed forms of the transfer of power (e.g., direct descent). Moreover, the death or dissolution of the individual or group exercising sovereignty may also bring about the end to its existence.

Examples:
- The sovereignty of the Ming dynasty 1368-1644 (https://en.wikipedia.org/wiki/Ming_dynasty)
- The sovereignty of the Russian Provisional Government from March 2, 1917-October 1917 (https://en.wikipedia.org/wiki/Russian_Provisional_Government)

Properties:
> WP3 had sovereign (exercised authority of): E39 Actor
> WP4 had subject population (was subject population of): ZE37 Population

WE3 Embodied Actor

Subclass of:
> E20 Biological Object
> E39 Actor

Superclass of:
> WE4 Manifest Group
> WE5 Animal

Scope note:
> This class comprises persons be they animal or more specifically human animals, individually or collectively in embodied form. The substance of embodied actor is physical persons.
> Instances of embodied actor come to be when the individual be it singular or plural is fully manifest in reality and agentially capable (in the broad sense of the term). Instances of embodied actor cease to exist when, if individual, they are materially and/or agentially defunct, having undergone physical or noetic disintegration, and when, if grouped, they are substantially dispersed after they have come together for a particular purpose.

Examples:
- the Crew of the HMS Beagle (WE4) (https://www.amnh.org/exhibitions/darwin/a-trip-around-the-world/a-five-year-journey)
- Sergeant Stubby (WE5) (https://en.wikipedia.org/wiki/Sergeant_Stubby)
- David Bowie (E21) (https://en.wikipedia.org/wiki/David_Bowie)

WE4 Manifest Group

Subclass of:
> E74 Group
> WE3 Embodied Actor

Scope note:
> This class comprises a defined set of persons who are able to act together as a single collective in intentional action and who are moreover gathered together physically to bring about this end. The substance of manifest groups is physical persons qua embodied actor.
> Instances of manifest group come into existence when an intentional group maintains a continuous co-presence in spacetime. Instances of manifest group cease to exist when this co-presence ends.
> Examples of manifest group include the players playing in a particular football match, the soldiers deployed in a battalion for a particular battle, a herd of sheep.

Examples:
- North African Theater of Operations, United States Army (NATOUSA) (https://en.wikipedia.org/wiki/Mediterranean_Theater_of_Operations,_United_States_Army)
- The Canadian Hockey Team in the 72 Summit Series with the USSR (https://www.thecanadianencyclopedia.ca/en/article/1972-canada-soviet-hockey-series)

Properties:
> WP5 was manifestation of (manifested in): E74 Group

WE5 Animal

Subclass of:
> WE3 Embodied Actor

Superclass of:
> E21 Person

Scope note:
> Instances of this class are living organisms that move and react to the environment around themselves and are endowed with some level of sentience.

Examples:
- Sergeant Stubby (https://en.wikipedia.org/wiki/Sergeant_Stubby)
- Asya the cat, coauthor of the works by Yuri Knorozov (https://en.wikipedia.org/wiki/Yuri_Knorozov)

WE6 Attack

Subclass of:
> ZE53 Symbolic Act

Scope note:
> This class comprises instances of aggressive physical action by one party towards another in which the instigator intends to cause damage to the target.

Examples:
- The attack on Pearl Harbour by the Empire of Japan, 7 Dec 1941 (https://en.wikipedia.org/wiki/Attack_on_Pearl_Harbor)

- Operation Torch, Allied invasion of French North Africa, 8 – 16 November 1942 (https://en.wikipedia.org/wiki/Operation_Torch)

Properties:
       WP6 had intended target (was intended target of): E18 Physical Thing
       WP16 had combatant (was combatant in): WE3 Embodied Actor

WE7 Voyage

Subclass of:
       WE12 Sending

Scope note:

       This class comprises events in which physical objects are moved from one place to another and wherein either the main or one of the main objects being moved is the person or persons undertaking the voyage. The substance of this class is that of an intentional event.

       Instance of voyage come into existence when the intention to voyage is declared and the associated preparative actions are begun with the intention of actually leaving. An instance of voyage may come to an end when it reaches its intended destination. It may also end if the intention to voyage is abandoned or the means by which to achieve it are no longer available.

Examples:
- The inaugural voyage of the Xiafan Guanjun fleet under Zheng He, 1405 (https://en.wikipedia.org/wiki/Ming_treasure_voyages)
- The Apollo Moon Landing, 20 July 1969, at 20:171967 UTC (https://en.wikipedia.org/wiki/Apollo_11)
- Christopher Columbus' Voyage of Discovery 1492 (https://en.wikipedia.org/wiki/Voyages_of_Christopher_Columbus)

Properties:
       WP7 was undertaken by (undertook): WE3 Embodied Actor
       WP8 had declared intermediary place (was declared intermediary place of): E53 Place

WE8 Intentional Destruction

Subclass of:
       E6 Destruction
       WE9 Destructive Physical Modification

Scope note:

       This class comprises events which are deliberately undertaken to cause the destruction of some physical thing and which succeed in that effort. The substance of this class is intentional activity with intent to destroy.
       Instances of this class come into existence when an actor begins an action that is intended to and capable of bringing about the end of existence of a physical object through an injurious action. Instances of this class cease to be when the aim of destroying the object is achieved and the object is destroyed.

Examples:
- The destruction of the Buddhas of Bamiyan, March 2001 (https://en.wikipedia.org/wiki/Buddhas_of_Bamiyan)
- Demolition of the Berlin Wall, 1990 - 1994 (https://www.chicagotribune.com/2014/11/02/untangling-5-myths-about-the-berlin-wall/)

WE9 Destructive Physical Modification

Subclass of:
> E7 Activity

Superclass of:
> WE8 Intentional Destruction

Scope note:

> This class comprises instances of intentional action by actors that are undertaken to physically bring about constitutional degradation and harm to physical things
> An instance of this class comes into existence when an actor undertakes to bring about damage to a physical thing with appropriate equipment and planning according to the context and intended object of damage to bring about such harm. Instances of this class come to a halt when the intended damage has been achieved or if the initiated action is given up part way or through lack of will or means to finish the action.

Examples:
- The intentional partial destruction of "Girl with Balloon" (E22) by Banksy, 2018 (https://en.wikipedia.org/wiki/Love_is_in_the_Bin)
- The defacement of two van Gogh (E22) paintings at the National Gallery by 'Just Stop Oil' protestors (E74), September 2024 (https://www.bbc.com/news/articles/c243v5m0r0lo)

Properties:
> WP10 diminished (was diminished by): E18 Physical Thing

WE10 Ameliorative Physical Modification

Subclass of:
> E7 Activity

Scope note:

> This class comprises instances of intentional action by actors that are undertaken to physically bring about constitutional improvement and benefit to E18 Physical Things.
> An instance of this class comes into existence when an actor undertakes to bring about benefit to a physical thing with appropriate equipment and planning according to the context and intended object of amelioration to bring about such benefit. Instances of this class come to a halt when the intended benefit has been achieved or if the initiated action is given up part way or through lack of will or means to finish the action.

Examples:
- The reconstruction of the Old Town of Warsaw (E27), 1945-51 (https://whc.unesco.org/en/list/30/)
- The emergency surgery on Pope John Paul II (E21) after an assassination attempt, 1981 (https://en.wikipedia.org/wiki/Health_of_Pope_John_Paul_II)

Properties:
> WP11 ameliorated (was ameliorated by): E18 Physical Thing

WE11 Correspondence Event

Subclass of:
>
> F28 Expression Creation

Scope note:
>
> Instances of this class represent communicative acts in which an actor addresses a message to another person or set of persons.

Examples:
- Einstein's writing and addressing of his first letter on the topic of Nazi Germany's nuclear research to Roosevelt, 1939 (https://www.osti.gov/opennet/manhattan-project-history/Events/1939-1942/einstein_letter.htm)
- The first message of the General Operational Key of the German Luftwaffe (E73) intercepted by the codebreakers at Bletchley Park, 20 May 1940 (https://bletchleypark.org.uk/our-story/enigma-red-messages/)

Properties:
>
> WP12 had addressee (was addressee of): ZE36 Persons

WE12 Sending

Subclass of:
>
> E9 Move

Superclass of:
>
> WE7 Voyage

Scope note:
>
> This class comprises events in which physical objects are moved from one place to another and wherein the sending person is not also the object of the event. The substance of this class is that of an intentional activity. Particularly, it is typical to know the declared origin and destination of an instance of sending but not necessarily its eventual outcome.
> An instance of sending comes into existence when the requisite actions are undertaken to initiate the dispatch of a physical object from one place to another are put it place and the sending made possible. An instance of sending may come to an end when the object sent has reached its intended destination. It may also end if the intention to send is abandoned or the means by which to achieve it are no longer available.

Examples:
- The forced removal of the Cherokee (ZE39) by the United States federal government (E74) from Georgia (E53) to the newly designated 'Indian Territory' (E53), 1938 (https://en.wikipedia.org/wiki/Trail_of_Tears)
- The exiling of Ovid (E21) by Augustus (E21) from Rome to Tomis (E53), 8 CE (https://en.wikipedia.org/wiki/Exile_of_Ovid)
- Einstein's posting his letter (E22) on the topic of Nazi Germany's nuclear research to Roosevelt (E21), 1939 (https://www.osti.gov/opennet/manhattan-project-history/Events/1939-1942/einstein_letter.htm)

Properties:
>
> WP9 had declared destination (was declared destination of): E53 Place
> WP13 had declared origin (was declared origin of): E53 Place

WE13 Visit

Subclass of:
> E7 Activity

Scope note:
> Instances of this class involve the intentional activity of actors to spend time in a geographic location for the sake of exploring and generally 'being' at that place for a period of time. Instances of visit entail an intentional relation to the place visited by the intending actor, engaging in interaction with and observation of the place that they visit and the various things to be met in that space.
>
> Instances of visit begin with the arrival of the visiting actor within the place to be visited. Instances of visit end when the visiting actor leaves the place visited. Instances of visit may further end if the actor gives up the intention or loses the means by which to continue the visit or themselves expire.

Examples:
- Darwins' visit to the Galapagos, September - October 1835 (https://www.amnh.org/exhibitions/darwin/a-trip-around-the-world/a-five-year-journey)
- The royal visit of Princess Elizabeth, Duchess of Edinburgh, and her husband, the Duke of Edinburgh, to Canada, 1951 (https://en.wikipedia.org/wiki/Royal_tours_of_Canada)

Properties:
> WP14 visited (was visited through): E53 Place

WE14 Dwelling

Subclass of:
> E7 Activity

Scope note:
> Instances of this class involve the intentional activity of actors to spend time in a geographic location in a capacity as inhabitant. Instances of dwelling entail an intentional relation to the place dwelt in by the intending actor, engaging in interaction with and observation of the place dwelt in and the various things to be met in that space in a manner building up a longer term relation to and reliance on the latter.
>
> Instances of dwelling begin with the settling in of the dwelling actor within the place to be dwelt in. Instances of dwelling end when the dwelling actor permanently leaves the place dwelt in, typically to establish dwelling in another place. Instances of dwelling may further end if the actor is forced against their will or lose the means by which to continue the dwelling in that place or when they themselves expire.

Examples:
- Ovid's period of exile in Tomis 8CE- 17/18CE (https://en.wikipedia.org/wiki/Exile_of_Ovid)
- David Bowie's West Berlin period, 1976-1978 (https://www.davidbowienews.com/2024/10/bowie-in-berlin-documentary-2024/)

Properties:
> WP15 dwelt in (was dwelt in through): E53 Place

WE15 Act of Authority

Subclass of:
> ZE53 Symbolic Act

Scope note:

> This class comprises instances of commands, orders, requests, etc., undertaken on the basis of one's authority, which typically aim to trigger a subsequent event, itself carried out by those who recognize the authority status of the actor. An instance of act of authority is conducted within a social-cultural framework and makes use of the codes and symbols of that framework to initiate an event or a sequence of events aimed at realising some desired outcome.
> Instances of act of authority begin when an E39 Actor, endowed with the appropriate authority, has another E39 Actor undertake an action by invoking an existing code or procedure to trigger the desired outcome. This need not, however, refer to an explicit or formal code or procedure.

Examples:
- Eisenhower's issuing of Executive Order 10450, 27 April 1953, 'charging heads of federal agencies and the Civil Service Commission, supported by the Federal Bureau of Investigation (FBI), with the task of investigating federal employees to determine whether they posed security risks' (https://en.wikipedia.org/wiki/Executive_Order_10450)
- Augustus exiling of Ovid from Rome to Tomis, 8 CE (https://en.wikipedia.org/wiki/Exile_of_Ovid)

Power, War, Religion and Relations Ontology ongoing Property Declarations

The properties are comprehensively declared in this section using the following format:

- Property names are presented as headings in bold face, preceded by unique property identifiers;
- The line "Domain:" declares the class for which the property is defined;
- The line "Range:" declares the class to which the property points, or that provides the values for the property;
- The line "Superproperty of:" is a cross-reference to any subproperties the property may have;
- The line "Quantification:" declares the possible number of occurrences for domain and range class instances for the property. Possible values are: one to many, many to many, many to one. Quantifications are presented in UML format and in ER format (used by the CIDOC CRM);
- The line "Scope note:" contains the textual definition of the concept the property represents;
- The line "Examples:" contains a bulleted list of examples of instances of this property.

WP1 had geographic scope (was geographic scope of)

Domain:
> WE1 Exercise of Authority

Range:
> E53 Place

Scope note:
> This property relates an instance of exercise of authority to the location over which it projects this authority.

Examples:
- Auguste Escoffier's exercise of authority over kitchen staff at the Savoy Hotel London (WE1) *had geographic scope* the kitchen at the Savoy Hotel London (E53)
- Eisenhower's command of the military members of the North African Theatre of Operations (WE1) *had geographic scope* North Africa (E53)

WP2 had authority over (was subject to authority of)

Domain:
> WE1 Exercise of Authority

Range:
> ZE36 Persons

Subproperty of:
> E5 Event:P11 had participant (participated in):E39 Actor

Scope note:
> This property connects an instance of exercise of authority to the persons individually or collectively over whom it exercised authority.

Examples:
- Auguste Escoffier exercise of authority (WE1) *had authority over* kitchen staff at the Savoy Hotel London (E74)

- Eisenhower's exercise of authority (WE1) *had authority over* the military members of the North African Theatre of Operations (E74)

WP3 had sovereign (exercised authority of)

Domain:

WE2 Sovereignty

Range:

E39 Actor

Subproperty of:

E7 Activity:P14 carried out by (performed):E39 Actor

Scope note:

This property relates an instance of sovereignty to an actor, individual or group, who wielded that sovereignty.

Examples:
- The sovereignty of the Ming dynasty (WE2) *had sovereign* the House of Zhu (E74)
- The sovereignty of the Russian Provisional Government (WE2) *had sovereign* the Provisional Committee of the State Duma (E74)

WP4 had subject population (was subject population of)

Domain:

WE2 Sovereignty

Range:

ZE37 Population

Subproperty of:

WE1 Exercise of Authority:WP2 had authority over (was subject to authority of):ZE36 Persons

Scope note:

This property relates an instance of sovereignty to a population over which it wielded this sovereignty.

Examples:
- The sovereignty of the Ming dynasty (WE2) *had subject population* the population of Ming dynasty China (ZE37)
- The sovereignty of the Russian Provisional Government (WE2) *had subject population* the population of post-Tzarist Russia (ZE37)

WP5 was manifestation of (manifested in)

Domain:

WE4 Manifest Group

Range:

E74 Group

Scope note:

This property relates an instance of manifest group as a realized collection of real individuals formed together in a coherent space time volume at some time to the abstract group with which they are otherwise identified.

Examples:
- The deployed troops of the North African Theater of Operations, United States Army (WE4) *was manifestation of* the United States Army (E74)
- The Canadian Hockey Team in the 72 Summit Series with the USSR (WE4) *was manifestation of* Team Canada (aka Canadian Men's International Hockey Team) (E74)

WP6 had intended target (was intended target of)

Domain:
WE6 Attack

Range:
E18 Physical Thing

Scope note:
This property relates an instance of attack to the intended target of that attack.

Examples:
- The attack on Pearl Harbour by the Empire of Japan (WE6) *had intended target* eight U.S. battleships stationed in the harbour (E22)
- Operation Torch (WE6) *had intended target* the port facilities at Safi (E22)

WP7 was undertaken by (undertook)

Domain:
WE7 Voyage

Range:
WE3 Embodied Actor

Subproperty of:
E9 Move:P25 moved (moved by):E19 Physical Object

Scope note:
This property links an instance of voyage to an instance of embodied actor that undertook that voyage. The related embodied actor is both the agent carrying out the voyage and the object moved.

Examples:
- The inaugural voyage of the Xiafan Guanjun (WE7) *was undertaken by* Admiral Zheng He (E21)
- The Apollo Moon Landing (WE7) *was undertaken by* Neil Armstrong (E21) and Buzz Aldrin (E21)

WP8 had declared intermediary place (was declared intermediary place of)

Domain:
WE7 Voyage

Range:

E53 Place

Scope note:

This property links an instance of voyage to an instance of place that the voyage was intended to pass through in the context of the voyage. The connection created between the voyage and the place is one of intention. Whether a place was actually passed through can only be determined by further documentation which would motivate the documentation of a visit or stop at the intended intermediary place as part of the overall instance of voyage.

Examples:
- The inaugural voyage of the Xiafan Guanjun (WE7) *had declared intermediary* place Liujiagang (劉家港) (E53)
- Christopher Columbus' Voyage of Discovery 1492 (WE7) *had declared intermediary place* Canary Islands (E53)

WP9 had declared destination (was declared destination of)

Domain:

WE12 Sending

Range:

E53 Place

Scope note:

This property links an instance of sending (and its subclasses) with a place of intended destination for the sending of the object. This property links the act of sending with the referenced place through intention, enabling the representation of the intended final arrival spot of the sent object. In documentation, an intended destination may be known rather than an actual destination of arrival for the sent object, or the intended destination and the final destination differ. This property allows the description of this nuance. The property crm:P26_moved_to should be used to document an actual move. For more complex, multi part actions of sending, an event forming part of the overall sending may document the final arrival place of the object (be that at its intended or another location).

Examples:
- The inaugural voyage of the Xiafan Guanjun (WE7) *had declared destination* the Western Ocean (西洋) (E53)
- Christopher Columbus' Voyage of Discovery 1492 (WE7) *had declared destination* China (E53)
- The Apollo Moon Landing (WE7) *had declared destination* the Moon (E53)

WP10 diminished (was diminished by)

Domain:

WE9 Destructive Physical Modification

Range:

E18 Physical Thing

Subproperty of:

E5 Event:P12 occurred in the presence of (was present at):E77 Persistent Item

Scope note:

This property links an instance of destructive physical modification with an instance of physical thing that was diminished through this activity. This property enables the documentation that an

instance of destructive physical modification successfully resulted in the reduction of the physical integrity of the physical thing targeted. It does not enable the quantification of this diminishing effect.

Examples:
- The intentional partial destruction of "Girl with Balloon" by Banksy (WE9) *diminished* the work "Girl with Balloon" (E22)
- The defacement at the National Gallery by 'Just Stop Oil' protestors diminished two Van Gogh paintings (E22)

WP11 ameliorated (was ameliorated by)

Domain:
WE10 Ameliorative Physical Modification

Range:
E18 Physical Thing

Subproperty of:
E5 Event:P12 occurred in the presence of (was present at):E77 Persistent Item

Scope note:
This property links an instance of ameliorative physical modification with an instance of physical thing that was ameliorated through this activity. This property enables the documentation that an instance of ameliorative physical modification successfully resulted in the improvement of the physical integrity of the physical thing targeted. It does not enable the quantification of this salutary effect.

Examples:
- The reconstruction of the Old Town of Warsaw (WE10) *ameliorated* the Old Town of Warsaw (E27)
- The emergency surgery on Pope John Paul II after an assassination attempt (WE10) *ameliorated* Pope John Paul II (E21)

WP12 had addressee (was addressee of)

Domain:
WE11 Correspondence Event

Range:
ZE36 Persons

Scope note:
This property links an instance of correspondence event to an instance of persons to whom it is addressed. This property enables the documentation in a chain of communication of the intended receiver of a particular act of communicating a message.

Examples:
- Einstein's correspondence on the topic of Nazi Germany's nuclear research (WE11) *had addressee* Theodore Roosevelt (E21)
- The first message of the General Operational Key of the German Luftwaffe (WE11) intercepted by the codebreakers at Bletchley Park (E74) *had addressee* the German Luftwaffe (E74)

WP13 had declared origin (was declared origin of)

Domain:
WE12 Sending

Range:
E53 Place

Scope note:
This property links an instance of sending (and its subclasses) with a place of intended origin for the sending of the object. This property links the act of sending with the referenced place through intention, enabling the representation of the intended originating location of the sending activity. In documentation, an intended origin destination may be known in distinction to the actual origin destination of the sending, and indeed the intended origin location and the final origin location may actually differ. This property allows the description of this nuance. The property crm:P27_moved_from should be used to document an actual origin location. For more complex, multi part actions of sending, an event forming part of the overall sending may document the final origin place of the sending (be that at its intended or another location).

Examples:
- The forced removal of the Cherokee by the United States government (WE12) *had declared* origin Georgia (E53)
- The exiling of Ovid by Augustus (WE12) *had declared* origin Rome (E53)

WP14 visited (was visited through)

Domain:
WE13 Visit

Range:
E53 Place

Subproperty of:
E4 Period:P7 took place at (witnessed):E53 Place

Scope note:
This property enables the documentation of the relation of an instance of visit event to the place visited. The relation holding between the visit event and the place differs from the typical documentation of the place at which an event occurs. The documented of the visit relation indicates the intentional activity of the actors involved to interact with and observe the place visited and the objects / events occurring within this place frame.

Examples:
- Darwins' visit to the Galapagos (WE13) *visited* the Galapagos (E53)
- The royal visit of Princess Elizabeth, Duchess of Edinburgh, and her husband, the Duke of Edinburgh (WE13) *visited* Canada (E53)

WP15 dwelt in (was dwelt in through)

Domain:
WE14 Dwelling

Range:

E53 Place

Subproperty of:

E4 Period:P7 took place at (witnessed):E53 Place

Scope note:

This property enables the documentation of the relation of an instance of dwelling event to the place dwelt in. The relation holding between the dwelling event and the place differs from the typical documentation of the place at which an event occurs. The documentation of the dwelling relation indicates the intentional activity of the actors involved to take up phenomenal residence and interact with the place dwelt in and the objects / events occurring therein as part of their everyday life and life activity.

Examples:
- Ovid's period of exile in Thomis (WE14) *dwelt* in Tomis (E53)
- David Bowie's 70s West Berlin period (WE14) *dwelt* in West Berlin (E53)

WP16 had combatant (was combatant in)

Domain:

WE6 Attack

Range:

WE3 Embodied Actor

Subproperty of:

E7 Activity:P14 carried out by (performed):E39 Actor

Scope note:

This property links an event of attack to instances of embodied actor who actively took part in the physical act of attacking.

Examples:
- The attack on Pearl Harbour by the Empire of Japan (WE6) *had combatant* the United States Pacific Fleet (WE3)
- Operation Torch (WE6) *had combatant* the Western Task Force (WE3)