Matter Standard Namespaces

Version 1.4.2-adopted

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Abstract:	The Matter specification defines fundamental requirements to enable an interoperable application layer solution for smart home devices over the Internet Protocol.
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Matter Semantic Tag Namespaces

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Revision History

Revision	Date	Details	Editor
1	October 18, 2023	Version 1.2	Robert Szewczyk
2	April 17, 2024	Version 1.3	Robert Szewczyk
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Chapter 1. Introduction

This document contains namespaces as part of the semantic tag feature.

The standard namespaces are defined in this appendix. They consist of the common namespaces and device-specific namespaces.

The Common namespaces start with Namespace ID 0x01 and contains semantic tags that can apply to any domain. Examples include direction words like 'left', 'right', 'up' and 'down' or location words like 'inside' and 'outside'.

Device-specific namespaces begin with Namespace ID 0x41. The semantic tags defined in the device-specific namespaces SHALL be restricted for use within each device type or set of device types.

NOTE	Some namespaces specific to certain group of device types (related to Energy and Laundry) have been assigned an ID from the common range, even though they are only applicable to a certain set of device types only.

A TagList MAY combine several of these tags, as appropriate for the device, provided that for any given device type the tags come from the namespace for that device type as well as any of the common namespaces, and/or from a manufacturer-specific namespace. Example: An outdoor luminaire with two light units, one shining upwards and one shining downwards. One light unit would be represented by an endpoint with a TagList which has TagStructs with Tags "Location.Outdoor" and "Position.Top" and "Direction.Upward", while the other light unit would be represented by an endpoint with a TagList which has TagStructs with Tags "Location.Outdoor" and "Position.Bottom" and "Direction.Downward".

ID	Namespace	Summary
Common namespaces		
0x01	Common Closure Namespace	**Deprecated** Tags which are useful in describing things related to closing and opening
0x02	Common Compass Direction Namespace	Tags which are useful in describing things related to compass direction
0x03	Common Compass Location Namespace	Tags which are useful in describing things related to compass location
0x04	Common Direction Namespace	Tags which are useful in describing things related to direction

ID	Namespace	Summary
0x05	Common Level Namespace	Tags which are useful in describing things related to level
0x06	Common Location Namespace	Tags which are useful in describing things related to location
0x07	Common Number Namespace	Tags which are useful in describing things related to numbering
0x08	Common Position Namespace	Tags which are useful in describing things related to position
0x0A	Electrical Measurement Namespace	Tags which are useful in describing electrical loads
0x0E	Laundry Namespace	Tags which are useful with laundry device types
0x0F	Power Source Namespace	Tags which are useful with power source device types
0x10	Common Area Namespace	Tags which are useful in describing things related to home areas
0x11	Common Landmark Namespace	Tags which are useful in describing things related to home landmarks
0x12	Common Relative Position Namespace	Tags which are useful in describing things related to position relative to a reference external to the device
Device-specific namespaces		
0x41	Refrigerator Namespace	Tags which are useful with refrigeration device types
0x42	Room Air Conditioner Namespace	Tags which are useful with Room Air Conditioner device types
0x43	Switches Namespace	Tags which are useful with switch device types

1.1. Connectivity Standards Alliance Reference Documents

Reference	Reference Location/URL	Description
[CoreSpec]	https://groups.csa-iot.org/wg/members-all/document/27349	Core Matter Specification
[DeviceLibrary]	https://groups.csa-iot.org/wg/members-all/document/27351	Device Library
[AppClusters]	https://groups.csa-iot.org/wg/members-all/document/27350	Application Clusters

Chapter 2. Common Closure Semantic Tag Namespace

This section contains the Common Closure semantic tag namespace as part of the semantic tag feature.

The tags contained in this namespace MAY be used in any domain or context, to indicate an association with a feature of a Closure, e.g. the button to activate opening a garage door.

NOTE

This namespace has been deprecated as of Matter 1.4.2.

Clients SHOULD still have support for these tags, since the tags could be used by a server certified on a previous revision of Matter.

ID	Namespace
0x01	Common Closure

The following tags are defined in this namespace.

ID	Name	Summary
0x00	Opening	Move toward open position
0x01	Closing	Move toward closed position
0x02	Stop	Stop any movement

Chapter 3. Common Compass Direction Semantic Tag Namespace

This section contains the Common Compass Direction semantic tag namespace as part of the semantic tag feature.

The tags contained in this namespace MAY be used in any domain or context, to indicate an association with a movement into a certain compass direction. Note the difference with Chapter 4, *Common Compass Location Semantic Tag Namespace*.

ID	Namespace
0x02	Common Compass Direction

The following tags are defined in this namespace.

ID	Name	Summary
0x00	Northward	
0x01	NorthEastward	
0x02	Eastward	
0x03	SouthEastward	
0x04	Southward	
0x05	SouthWestward	
0x06	Westward	
0x07	NorthWestward	

Chapter 4. Common Compass Location Semantic Tag Namespace

This section contains the Common Compass Location semantic tag namespace as part of the semantic tag feature.

The tags contained in this namespace MAY be used in any domain or context, to indicate an association with a position in a certain compass direction (e.g. an outdoor sensor in the North garden). Note the difference with Chapter 3, *Common Compass Direction Semantic Tag Namespace*.

ID	Namespace
0x03	Common Compass Location

The following tags are defined in this namespace.

ID	Name	Summary
0x00	North	
0x01	NorthEast	
0x02	East	
0x03	SouthEast	
0x04	South	
0x05	SouthWest	
0x06	West	
0x07	NorthWest	

Chapter 5. Common Direction Semantic Tag Namespace

This section contains the Common Direction semantic tag namespace as part of the semantic tag feature.

The tags contained in this namespace MAY be used in any domain or context, to indicate an association with a movement in a certain direction relative to the device. Note the difference with Chapter 9, *Common Position Semantic Tag Namespace*.

ID	Namespace
0x04	Common Direction

The following tags are defined in this namespace.

ID	Name	Summary
0x00	Upward	
0x01	Downward	
0x02	Leftward	
0x03	Rightward	
0x04	Forward	
0x05	Backward	

Chapter 6. Common Level Semantic Tag Namespace

This section contains the Common Level semantic tag namespace as part of the semantic tag feature.

The tags contained in this namespace MAY be used in any domain or context, to indicate an association with a certain level for a feature of a device (e.g. a button to set the speed of a fan).

ID	Namespace
0x05	Common Level

The following tags are defined in this namespace.

ID	Name	Summary
0x00	Low	
0x01	Medium	
0x02	High	

Chapter 7. Common Location Semantic Tag Namespace

This section contains the Common Location semantic tag namespace as part of the semantic tag feature.

The tags contained in this namespace MAY be used in any domain or context, to indicate an association with a location of a device (e.g. an outdoor temperature sensor).

ID	Namespace
0x06	Common Location

The following tags are defined in this namespace.

ID	Name	Summary
0x00	Indoor	Element is indoors or related to indoor equipment/conditions (e.g. the "indoor" temperature).
0x01	Outdoor	Element is outdoors or related to outdoor equipment/conditions (e.g. the "outdoor" temperature).
0x02	Inside	Element is located inside the equipment (e.g. a sensor "inside" a cabinet).
0x03	Outside	Element is located outside the equipment (e.g. a sensor "outside" a cabinet).
0x04	Zone	Element is a part of a location divided into zones (e.g. a yard irrigation zone).

Chapter 8. Common Number Semantic Tag Namespace

This section contains the Common Number semantic tag namespace as part of the semantic tag feature.

The tags contained in this namespace MAY be used in any domain or context, to indicate an association with a certain numeric feature of a device (e.g. a numeric input button).

ID	Namespace
0x07	Common Number

The following tags are defined in this namespace.

ID	Name	Summary
0x00	Zero	
0x01	One	
0x02	Two	
0x03	Three	
0x04	Four	
0x05	Five	
0x06	Six	
0x07	Seven	
0x08	Eight	
0x09	Nine	
0x0A	Ten	
0x0B	Eleven	
0x0C	Twelve	
0x0D	Thirteen	
0x0E	Fourteen	
0x0F	Fifteen	
0x10	Sixteen	
0x11	Seventeen	
0x12	Eighteen	
0x13	Nineteen	
0x14	Twenty	
0x15	TwentyOne	

ID	Name	Summary
0x16	TwentyTwo	
0x17	TwentyThree	
0x18	TwentyFour	
0x19	TwentyFive	
0x1A	TwentySix	
0x1B	TwentySeven	
0x1C	TwentyEight	
0x1D	TwentyNine	
0x1E	Thirty	

Chapter 9. Common Position Semantic Tag Namespace

This section contains the Common Position semantic tag namespace as part of the semantic tag feature.

The tags contained in this namespace MAY be used in any domain or context, to indicate an association with a position relative to the device (e.g. the temperature sensor in the top drawer of a refrigerator, or location of the buttons on a multi-button switch device). Note the difference with Chapter 5, *Common Direction Semantic Tag Namespace*.

ID	Namespace
0x08	Common Position

The following tags are defined in this namespace.

ID	Name	Summary
0x00	Left	
0x01	Right	
0x02	Top	
0x03	Bottom	
0x04	Middle	
0x05	Row	Numeric value provided in Label field
0x06	Column	Numeric value provided in Label field

When multiple endpoints are used for device types, and the associated consumer-facing locations of those endpoints are organized in a straight line, grid or matrix, these endpoints SHOULD be allocated in top-to-bottom, left-to-right order.

For grids or arrays larger than 3 elements in any direction, the Row and Column tags SHOULD be used.

If the Row or Column tags are used, the Label field in the same Semantic Tag structure SHALL be filled with a number comprised of Arabic numerals encoded as a string to indicate the row/column of the item. Number words (e.g. "one", "two", etc.) SHALL NOT be used to describe the position of the item. The first row/column SHALL use Label "1".

9.1. Examples

The following example illustrates a compound device comprised of 9 endpoints arranged in a 3x3 grid. This example uses position tags to indicate position.

compound device arranged in a 3x3 grid		
Top Left	Top Middle	Top Right
Middle Left	Middle	Middle Right
Bottom Left	Bottom Middle	Bottom Right

The endpoints would be populated in this order (showing the TagList in their Descriptor cluster):

- EP 21: Top Left
- EP 22: Top Middle
- EP 23: Top Right
- EP 24: Middle Left
- EP 25: Middle
- EP 26: Middle Right
- EP 27: Bottom Left
- EP 28: Bottom Middle
- EP 29: Bottom Right

The following example illustrates a compound device comprised of 8 endpoints arranged in a 2x4 grid. This example uses the Row and Column tags along with Arabic numeral Labels to indicate position.

Row "1" Column "1"	Row "1" Column "2"	Row "1" Column "3"	Row "1" Column "4"
Row "2" Column "1"	Row "2" Column "2"	Row "2" Column "3"	Row "2" Column "4"

The endpoints would be populated in this order (showing the TagList in their Descriptor cluster):

- EP 31: {Row, "1"}, {Column, "1"}
- EP 32: {Row, "1"}, {Column, "2"}
- EP 33: {Row, "1"}, {Column, "3"}
- EP 34: {Row, "1"}, {Column, "4"}
- EP 35: {Row, "2"}, {Column, "1"}
- EP 36: {Row, "2"}, {Column, "2"}
- EP 37: {Row, "2"}, {Column, "3"}
- EP 38: {Row, "2"}, {Column, "4"}

Chapter 10. Common Landmark Semantic Tag Namespace

This section contains the Common Landmark semantic tag namespace as part of the semantic tag feature.

The tags contained in this namespace MAY be used in any domain or context, to indicate an association with a home landmark.

ID	Namespace
0x11	Common Landmark Namespace

The following tags are defined in this namespace.

ID	Name	Summary
0x00	AirConditioner	
0x01	AirPurifier	
0x02	BackDoor	
0x03	BarStool	
0x04	BathMat	
0x05	Bathtub	
0x06	Bed	
0x07	Bookshelf	
0x08	Chair	
0x09	ChristmasTree	
0x0A	CoatRack	
0x0B	CoffeeTable	
0x0C	CookingRange	
0x0D	Couch	
0x0E	Countertop	
0x0F	Cradle	
0x10	Crib	
0x11	Desk	
0x12	DiningTable	
0x13	Dishwasher	
0x14	Door	
0x15	Dresser	

ID	Name	Summary
0x16	LaundryDryer	
0x17	Fan	
0x18	Fireplace	
0x19	Freezer	
0x1A	FrontDoor	
0x1B	HighChair	
0x1C	KitchenIsland	
0x1D	Lamp	
0x1E	LitterBox	
0x1F	Mirror	
0x20	Nightstand	
0x21	Oven	
0x22	PetBed	
0x23	PetBowl	
0x24	PetCrate	An indoor furnishing for pets to rest or sleep inside
0x25	Refrigerator	
0x26	ScratchingPost	
0x27	ShoeRack	
0x28	Shower	An area where a showerhead dispenses water for people to shower
0x29	SideDoor	
0x2A	Sink	
0x2B	Sofa	
0x2C	Stove	
0x2D	Table	
0x2E	Toilet	
0x2F	TrashCan	
0x30	LaundryWasher	
0x31	Window	
0x32	WineCooler	A type of refrigerator that is shelved to hold wine bottles and (typically) display them through a glass front

Chapter 11. Common Relative Position Semantic Tag Namespace

This section contains the Common Relative Position semantic tag namespace as part of the semantic tag feature.

The tags contained in this namespace MAY be used in any domain or context, to indicate an association with a position relative to some reference, which must be specified by the user of these tags. For example, the position may be relative to a household item, such as a dining table, and the user of these tags must indicate that. Note the difference with Chapter 9, *Common Position Semantic Tag Namespace*, which contains tags indicating the position relative to the device.

ID	Namespace
0x12	Common Relative Position

The following tags are defined in this namespace.

ID	Name	Summary
0x00	Under	
0x01	NextTo	Area in proximity to the point of reference
0x02	Around	The area surrounding the point the reference
0x03	On	
0x04	Above	
0x05	FrontOf	
0x06	Behind	

Chapter 12. Electrical Measurement Semantic Tag Namespace

This section contains the standard semantic tag namespace for electrical measurement as part of the semantic tag feature.

The tags contained in this namespace are restricted for use in the electrical measurement domain and SHALL NOT be used in any other domain or context.

ID	Namespace
0x0A	Electrical Measurement

The following tags are defined in this namespace.

ID	Name	Summary
0x00	DC	Indicates values measured for a DC load
0x01	AC	Indicates values measured for a single-phase AC load, or values measured for the collective load on a polyphase AC power supply
0x02	ACPhase1	Indicates values measured for an AC load on phase 1 of a polyphase power supply
0x03	ACPhase2	Indicates values measured for an AC load on phase 2 of a polyphase power supply
0x04	ACPhase3	Indicates values measured for an AC load on phase 3 of a polyphase power supply

Chapter 13. Common Area Semantic Tag Namespace

This section contains the Common Area semantic tag namespace as part of the semantic tag feature.

The tags contained in this namespace MAY be used in any domain or context, to indicate an association with an indoor or outdoor area of a home.

ID	Namespace
0x10	Common Area Namespace

The following tags are defined in this namespace.

ID	Name	Summary
0x00	Aisle	
0x01	Attic	
0x02	BackDoor	
0x03	BackYard	
0x04	Balcony	
0x05	Ballroom	
0x06	Bathroom	Also known as Restroom
0x07	Bedroom	
0x08	Border	
0x09	Boxroom	A small room typically used for storage
0x0A	BreakfastRoom	
0x0B	Carport	
0x0C	Cellar	
0x0D	Cloakroom	
0x0E	Closet	A small room for storing clothing, linens, and other items.
0x0F	Conservatory	
0x10	Corridor	
0x11	CraftRoom	
0x12	Cupboard	
0x13	Deck	

ID	Name	Summary
0x14	Den	A small, comfortable room for individual activities such as work or hobbies
0x15	Dining	
0x16	DrawingRoom	
0x17	DressingRoom	
0x18	Driveway	
0x19	Elevator	
0x1A	Ensuite	A bathroom directly accessible from a bedroom
0x1B	Entrance	
0x1C	Entryway	
0x1D	FamilyRoom	
0x1E	Foyer	
0x1F	FrontDoor	
0x20	FrontYard	
0x21	GameRoom	
0x22	Garage	
0x23	GarageDoor	
0x24	Garden	
0x25	GardenDoor	
0x26	GuestBathroom	Also known as Guest Restroom
0x27	GuestBedroom	
0x28	Reserved1	Deprecated: was Guest Restroom; use 0x26 Guest Bathroom
0x29	GuestRoom	Also known as Guest Bedroom
0x2A	Gym	
0x2B	Hallway	
0x2C	HearthRoom	A cozy room containing a fireplace or other point heat source
0x2D	KidsRoom	
0x2E	KidsBedroom	
0x2F	Kitchen	

ID	Name	Summary
0x30	Reserved2	Deprecated: was Larder; use 0x3D Pantry
0x31	LaundryRoom	
0x32	Lawn	
0x33	Library	
0x34	LivingRoom	
0x35	Lounge	
0x36	MediaTvRoom	
0x37	MudRoom	A space used to remove soiled garments prior to entering the domicile proper
0x38	MusicRoom	
0x39	Nursery	
0x3A	Office	
0x3B	OutdoorKitchen	
0x3C	Outside	
0x3D	Pantry	AKA a larder, a place where food is stored
0x3E	ParkingLot	
0x3F	Parlor	
0x40	Patio	
0x41	PlayRoom	
0x42	PoolRoom	A room centered around a pool/billiards table
0x43	Porch	
0x44	PrimaryBathroom	
0x45	PrimaryBedroom	
0x46	Ramp	
0x47	ReceptionRoom	
0x48	RecreationRoom	
0x49	Reserved3	Deprecated: was Restroom; use 0x06 Bathroom
0x4A	Roof	
0x4B	Sauna	

ID	Name	Summary
0x4C	Scullery	A utility space for cleaning dishes and laundry
0x4D	SewingRoom	
0x4E	Shed	
0x4F	SideDoor	
0x50	SideYard	
0x51	SittingRoom	
0x52	Snug	An informal space meant to be 'cozy', 'snug', relaxed, meant to share with family or friends
0x53	Spa	
0x54	Staircase	
0x55	SteamRoom	
0x56	StorageRoom	
0x57	Studio	
0x58	Study	
0x59	SunRoom	
0x5A	SwimmingPool	
0x5B	Terrace	
0x5C	UtilityRoom	
0x5D	Ward	The innermost area of a large home
0x5E	Workshop	
0x5F	Toilet	A room dedicated to a toilet; a water closet / WC

Chapter 14. Laundry Semantic Tag Namespace

This section contains the standard semantic tag namespace for laundry as part of the semantic tag feature.

The tags contained in this namespace are restricted for use in the laundry domain and SHALL NOT be used in any other domain or context.

ID	Namespace
0x0E	Laundry

The following tags are defined in this namespace.

ID	Name	Summary
0x00	Normal	
0x01	LightDry	
0x02	ExtraDry	
0x03	NoDry	

Chapter 15. Power Source Semantic Tag Namespace

This section contains the standard semantic tag namespace for power sources as part of the semantic tag feature.

The tags contained in this namespace are restricted for use in the power source domain and SHALL NOT be used in any other domain or context.

ID	Namespace
0x0F	Power Source

The following tags are defined in this namespace.

ID	Name	Summary
0x00	Unknown	The Power Source cluster is related to power provided from an unknown source
0x01	Grid	The Power Source cluster is related to power provided from the electrical grid
0x02	Solar	The Power Source cluster is related to power provided from a solar panel array
0x03	Battery	The Power Source cluster is related to power provided from a battery
0x04	EV	The Power Source cluster is related to power provided from an electric vehicle

15.1. Grid Tag

Power Source clusters with this tag SHALL implement the WIRED feature.

15.2. Solar Tag

Power Source clusters with this tag SHALL implement the WIRED feature.

15.3. Battery Tag

Power Source clusters with this tag SHALL implement the BAT feature.

15.4. EV Tag

Power Source clusters with this tag SHALL implement the BAT feature.

Chapter 16. Refrigerator Semantic Tag Namespace

This section contains the standard semantic tag namespace for refrigerators as part of the semantic tag feature.

The tags contained in this namespace are restricted for use in the refrigerator domain and SHALL NOT be used in any other domain or context.

ID	Namespace
0x41	Refrigerator

The following tags are defined in this namespace.

ID	Name	Summary
0x00	Refrigerator	
0x01	Freezer	

Chapter 17. Room Air Conditioner Semantic Tag Namespace

This section contains the standard semantic tag namespace for room air conditioners as part of the semantic tag feature.

The tags contained in this namespace are restricted for use in the room air conditioner domain and SHALL NOT be used in any other domain or context.

ID	Namespace
0x42	Room Air Conditioner

The following tags are defined in this namespace.

ID	Name	Summary
0x00	Evaporator	
0x01	Condenser	

Chapter 18. Switches Semantic Tag Namespace

This section contains the standard semantic tag namespace for switches as part of the semantic tag feature.

The tags contained in this namespace are restricted for use in the switches domain and SHALL NOT be used in any other domain or context. They are intended to indicate the function of a button on a switch device to allow a client to make an optimized user interface which matches the actual device without requiring a-priori knowledge of the layout of each specific switch device.

See the rules for applying these and other tags for switch devices, e.g. from the Common Position Namespace and the Common Number Namespace in the Generic Switch device type section in the Device Library.

ID	Namespace
0x43	Switches

The following tags are defined in this namespace.

ID	Name	Summary
tags to identify intended function of a button		
0x00	On	
0x01	Off	
0x02	Toggle	
0x03	Up	e.g. dim up (light)
0x04	Down	e.g. dim down (light)
0x05	Next	e.g. select next scene
0x06	Previous	e.g. select previous scene
0x07	EnterOkSelect	Enter/OK/Select function
0x08	Custom	Textual description provided in Label field
0x09	Open	e.g. open window covering
0x0A	Close	e.g. close window covering
0x0B	Stop	e.g. stop moving window covering

18.1. Custom Tag

When this value is used, the Label field in the same Semantic Tag structure SHALL be filled with a textual description of the function indicated on the button, such as a label or icon printed on the

button, e.g. "dining".