



SightCompass Standards of Configuration Manual Version 2.0

© SightCompass, LLC TM

01 Contents

02 Welcome to the world of SightCompass Mapping!

03 What are the Standards of Configuration?

04 Orientation and Mobility (O&M) Information

05 Terms of Mapping a SightCompass Beacon

07 Mapping a Site with Examples

12 Final

Welcome to the world of SightCompass Mapping!

We want to congratulate you and thank you for joining the SightCompass accessibility network!

Together we will create a digital world that provides trusted access for all. SightCompass is for everyone, but its primary application is to provide access for individuals with various disabilities.

Our focus in creating SightCompass has always been the visually impaired. However, by creating the standards of configuration that focuses on the blind, we have found the standard useful for all. We have beta tested this standard here in the US and also internationally with great results.

For example, if we were explaining a post-it information board in a hallway to someone who is blind, we would provide links to each post-it. This information would also be useful for someone who is dyslexic. The screen reader on their mobile phone will in a sense, read them the individual posts. Likewise, if the same data were available in multiple languages, then again, more people have access.

We look forward to creating this new frontier with you that will provide access everywhere

-The SightCompass Group

What are the Standards of Configuration?

These standards are a methodology of using consistent language and process in describing any environment. This description will determine what a user will hear and or see when using the SightCompass mobile App. Describing to someone navigation directions or object details is second nature. We have been doing it since childhood. It is no different here, do not over think it, just think and keep it practical.

Less, is much more! As you describe a **Site**, **Area** or an **Object**, keep it simple as though you were verbally giving directions. The only difference is you are trailing a person along walls, routes or objects in the description.

Deaf Blind Users. These users will have the data translated through a Bluetooth braille display in real-time. Beta testing with the Deaf blind quickly confirmed our philosophy, the less the brain needs to digest at one time, the quicker and clearer it can create the picture for the App user.

Navigation vs. Awareness of one's surroundings. SightCompass has redefined everything. We found over the many years of working with the blind and visually impaired that in addition to navigation, descriptions of the details/surroundings need to be described. SightCompass not only provides you the power to describe how to get someone somewhere, but it also allows you to paint a picture of what the person will experience on the way. For instance, depending on the **Site**, **Area** or **Object**, details of the surroundings need to be described. A description of a hotel room including "power outlet built into the base of the lamp" can be very helpful. A description of where the thermostat is, and the orientation of the buttons as well as device instructions are an enormous help. In the bathroom the order of the bottles on the vanity would be huge.

New Discoveries! Users will discover aspects of their everyday environment they've never had access to or realized were there. While beta testing SightCompass, we experienced people noticing objects like drinking fountains that they never knew were there, but have passed by for years. Other beta testers learned new spacial concepts. SightCompass made the environments completely accessible for all to see.

Orientation and Mobility (O&M) Information

**Orientation:* Using navigation and 'mental mapping' skills (the ability to mentally configure a local or known environment to get an 'overview'), and having an increased understanding of spatial awareness and kinesthetic senses (knowledge of the movement and position of the body), will support the use of orientation principles and skills more effectively.

Mobility: The physical 'organic' movement and 'locomotion' of a person. It has been described as 'the ability to move within one's environment and the capacity, readiness and facility to move'.

SightCompass believes that O&M training is crucial for someone who is blind or visually impaired. While beta testing and discussing SightCompass with O&M certified instructors and students, we've learned a lot. We've also received strong feedback that SightCompass will be a very powerful tool and the applications are endless. Certified instructors not only said they would love to use SightCompass for training, but also to help in collecting data and creating accessible sites for others to use. Research has shown that for individuals with low vision or blindness, being able to preview an environment before getting there is critical. SightCompass provides that preview.

Terms of Mapping a SightCompass Beacon

We have found that these helpful descriptions will assist with configuring a SightCompass Beacon. The terms listed below are the standards for indoor mapping. People using the SightCompass App generally expect continuity among other SightCompass Mapped Areas.

Area – An Area separates and defines a Site – (Example: Lobby, Bathroom, terminal, hotel room, class room, order counter, conference room, trade show booth etc.)

Back wall – This is the back wall of an Area. After a user enters a room, this wall is now naturally in front of them across the Area. You may describe a new entrance point, hallway or door to new Area. You can also use Left back wall, Center back wall and Right back wall for greater detail.

Bird's Eye View- An overall view of an area that is mapped.

Entrance wall – This is the wall with the entrance used to enter an Area. After a user enters a room, this wall is now naturally slightly behind them. SightCompass uses entrances as the starting point of a Site, Area or Object location description. You can also use Left entrance wall, Center entrance wall and Right entrance wall for greater detail.

Left wall – This refers to a wall to the left when facing away from entrance. You can also use Near left wall, Center left wall and Far left wall for greater detail.

Narrow or Wide – These two words can help describe a door or more importantly a path. (Example:From the south entrance door, there is a direct narrow path heading north to back left wall, about 50 feet, where the drinking fountain is located.)

Now facing – Directs a person to search in a section of an Area. (Example: Now facing sink, hand towels are located directly behind faucet on shelf.)

Object – An Object can be found and added to Areas. (Examples: sink, hand dryer, soda fountain, temperature control, remote control, drinking fountain, shampoo, copy machine, fire extinguisher etc.)

Right wall – This refers to a wall to the right when facing away from entrance. You can also use Far right wall, Center right wall and Near right wall for greater detail.

SightCompass Beacon – Bluetooth hardware that interacts with SightCompass network.

SightCompass Mapped - A physical geographical location containing one or more SightCompass Beacons.

Site - Main location (Example: Starbucks, ASU, VA Hospital, Hilton, Sky Harbor Airport, etc.) Within the app, this is a title Site letting the user know the following navigation links are for Sites.

Trail – This term is used when providing a navigation description. (Example: Trail wall left or Trail wall right.)

Mapping a Site

We have created a grid system using the terms above as a standard for indoor mapping. The starting point is the doorway in the entrance wall. At the doorway, facing the rear wall begin at your left and describe items along each wall moving around the perimeter of the room in a clockwise direction. This general description of items will become the Bird's eye view. Move around the room describing items along all walls until reaching the entrance or starting point. If additional items need to be described, go around the room again moving left to right in a clockwise direction and add these. This provides a phenomenal description and provides you with a highly detailed, easily recalled picture in your mind's eye. The following is a basic layout of a room with list of terms used to describe the walls for SightCompass Mapping.

	Back Wall Left	Back Wall Center	Back Wall Right	
Far Left Wall	Far Left Center	Far Center	Far Right Center	Far Right Wall
Center Left Wall	Left Center	Center	Right Center	Center Right Wall
Near Left Wall	Near Left Center	Near Center	Near Right Center	Near Right Wall
	Entrance Wall Left	Entrance Wall Center	Entrance Wall Right	

Here are three examples of describing a room with the terms above.

Title: Coffee Shop

We will describe the room in a clockwise manner starting from the north entrance door behind you and you are facing south. After entering immediately to your left along the left entrance wall is one table for two. This table has a power outlet near the second or far chair. Left near wall you will find the gifts shelf containing fresh coffee grounds and coffee mugs. After that along left center wall you will find three more tables for two. Last along left back wall is the cream and sugar bar. Left back wall you will find a narrow hall way entrance to leads south. Entrance to this narrow hallway is open with no door. Straight back to the south is door to the women's restroom. Men's restroom in on right to the East. Now, back to the back wall. Along the center back wall is the neighborhood bulletin board. Along far right wall to center right wall is

the service counter. Facing counter and to the east. Employee entrance on left, do not enter. Center is where you place your order, to the right of this the food and beverage cold case and last on the right is the pickup counter. Near right wall trailing north, you will find another table for two, next a couch and last table for 6. Now we are back where we began and will bring you up the middle. A few feet directly in front of you is a row of 4 tables for two. These extend to the end of the counter and center of room. When entering move a few feet to the left and then move forward or south to the counter.

TITLE: Men's Restroom

(First, provide instructions on how to get to this area)

To get to the Men's restroom, starting from the north entrance door behind you and you are facing south. Left back wall you will find a narrow hall way entrance that leads south. Entrance to this narrow hallway is open with no door. Straight back to the south is the door to the Women's restroom. Men's restroom in on right to the East. Now, entering Men's restroom, door pushes in on right. With door behind you, facing west, Entrance wall left has a hand dryer on the wall, place hands under to operate. Auto on and off sensor. Near left wall has stall one and two, Center left wall has stall three and four. Stall four is ADA approved. All stalls auto flush. Far left wall has two urinals. Facing urinals to the east, Adult on left and child on right. Both are Auto flush. Left back wall has a door that opens by pushing in on right. Door leads to west side of pool area. Center back wall has nine lockers hanging on the wall. Right back wall has two privacy showers. Two knobs. Hot on left, cold on right. Turn knob to right to operate. Far right wall has emergency entrance that leads to West parking lot. Push in on bar across center of door to exit. Alarm may sound. Center right wall has two sink counters. Auto on and off sensor, place hands under faucet to operate. Now facing sink and to the West, hand towels are located directly behind faucet on shelf. Soap is located to the left of the faucet. Auto on and off sensor, place hands under soap dispenser to operate. Near right wall has a changing station mounted on the wall. Pull down on handle to operate. Handle located right of station. Last Entrance wall right has a garbage can on the floor.

End of Text

TITLE: Order counter:

Starting from the north entrance door behind you and you are facing south. Along far right wall to center right wall is the service counter. Facing counter and to the east. Employee entrance on left, do not enter. Center is where you place your order, to the right of this is the food and beverage cold case and last on the right is the pickup counter.

TITLE: Hot Drink Menu:

CAFE LATTE Small \$2.70 Medium \$3.25 Large \$3.25
CAPPUCINO Small \$2.70 Medium \$3.25 Large \$3.55
CAMEL MACCHIATO Small \$3.15 Medium \$3.70 Large \$4.00
CAFE' MOCHA Small \$3.00 Medium \$3.55 Large \$3.85
WHITE CHOCOLATE MOCHA Small \$3.40 Medium \$3.95 Large \$4.40
CAFE' AMERICANO Small \$1.95 Medium \$2.25 Large \$2.50
VANILLA LATTE Small \$3.00 Medium \$3.55 Large \$3.85
CINNAMON DOLCE LATTE Small \$3.40 Medium \$3.95 Large \$4.40
SOLO DOPPIO ESPRESSO Small \$1.55 Medium \$1.85
ESPRESSO MACCHIATO Small \$1.60 Medium \$1.95

Mall, School, Hotel, Hospital etc.

“Sometimes a method of returning the user to the entrance for a description is necessary in very large areas.”

EXAMPLE:

Welcome to the East Mall Food Court!

We will use the North West entrances of the mall to begin our description.

There are actually 3 separate entrances along this North West side of the mall.

Now, facing these 3 entrances looking south, let's use the set of doors, all the way to the right, or the third set from the left. Now facing the set of doors, door on the left has handle on the right, pull to open. Door on the right has handle on the left, pull to open. Now after entering North West entrance and doors are now behind you. You should be facing south. Be careful, immediately on your left is a staircase that goes down to a lower level that has not been mapped yet. After these stairs trailing wall left is another stair case that heads up, 6 steps, and east, to the food court, restrooms and drinking fountains. Note: See area links below for restrooms and food court information and descriptions on those areas. Now let's head back to the entrance again, shoot forward and pass the two

staircases on the left and you will find a yogurt shop. Next trailing wall left is a ramp entrance to the other end of the food court. After this on left is an ATM machine. Last on left are stairs to the food court. These go up 6 steps. Across from stairs, and on right side of hall is the small market. Now one more time, Back to North West entrance door behind you, immediately to your right is the entrance to the bagel shop.

Final

As you can see the SightCompass Mapping Standards are logical and easy to use! Adhering closely to the grid and utilizing the terms is critical to maintaining consistency across SightCompass enabled sites.

If you have questions, comments or ideas, please contact us at:
info@sightcompass.com