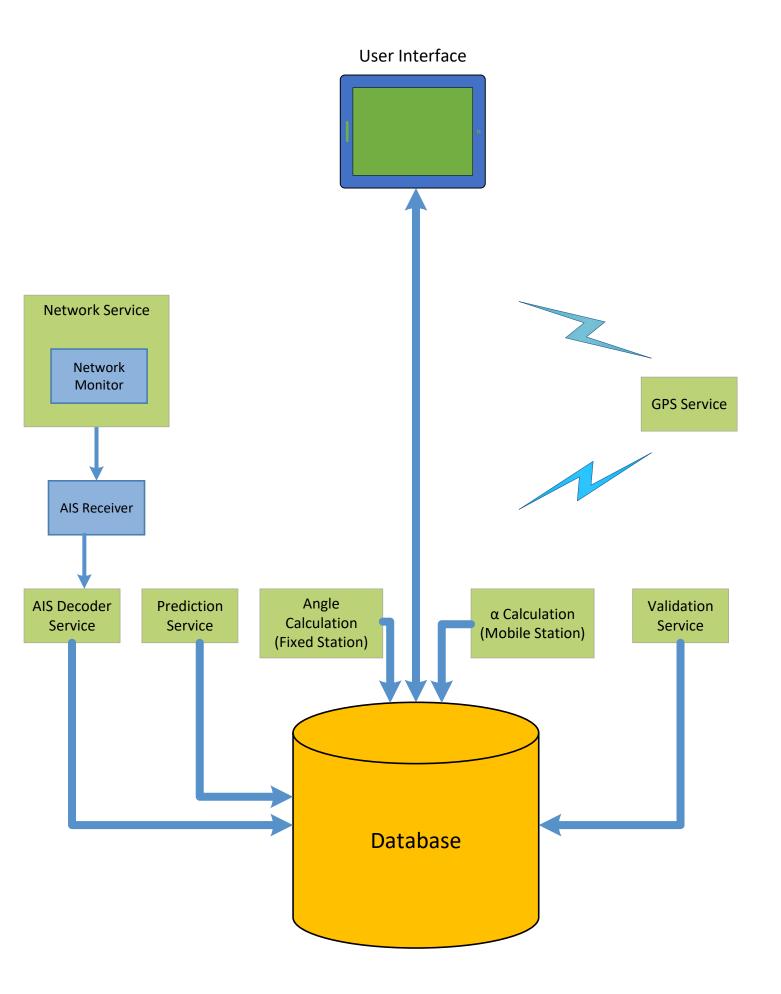
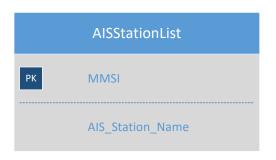
### **App Architecture**

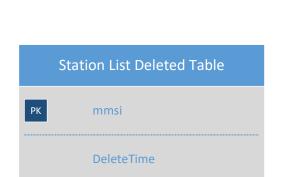




	AISMobileStation
PK	_ID
	MMSI
	AIS_Station_Name
	Latitude
	Longitude
	SOG
	COG
	Alpha
	Distance
	X_Position
	Y_Position
	UpdateTime
	isCalculated
	LastReceivedPacketType

	Users
PK	_id
	UserName
	Password

AISFi	xedStationPosition
PK _	ļD
Λ	1MSI
А	.lS_Station_Name
L	atitude
L	ongitude
R	eceived_Latitude
R	eceived_Longitude
А	lpha
D	vistance
X	_Position
Υ	_Position
S	tation Type
S	OG
C	OG
L	astReceivedPacketType
L	IpdateTime
	PositionPredicted
Р	redictionAccuracy
Is	SLocationReceived





PK

\_ID

Devic

Devic

Devic

Opera

Devic

comn

Latitu

Longi

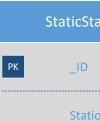
X\_Pos

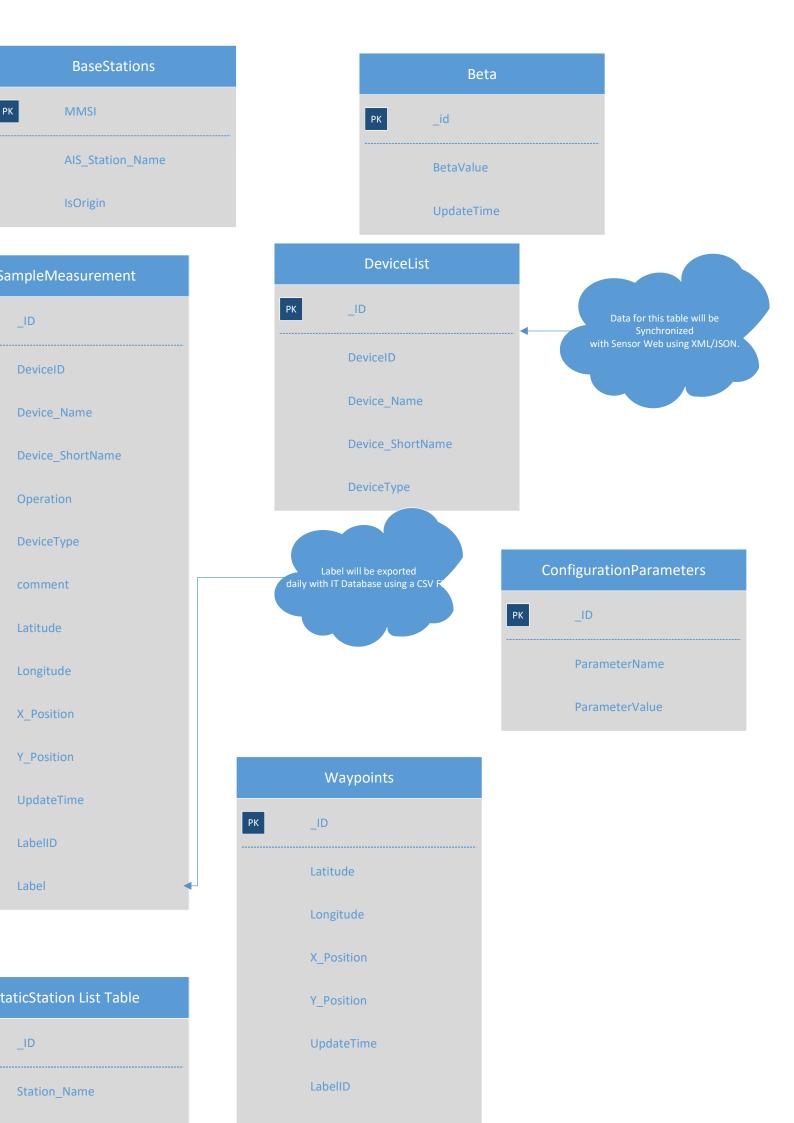
Y\_Pos

Upda<sup>1</sup>

Labell

Label





	BaseStation Deleted Table
PK	mmsi
	DeleteTime

Password



DeleteTime

Y\_Pos Statio Alpha Distar

Statio

X\_Pos

Static Station

\_\_id

\_\_id

StationNa

DeleteTin

Station_Name
X_Position
Y_Position
Station_Type
Alpha
Distance

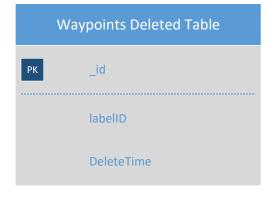
### Station Deleted Table

\_id

StationName

DeleteTime

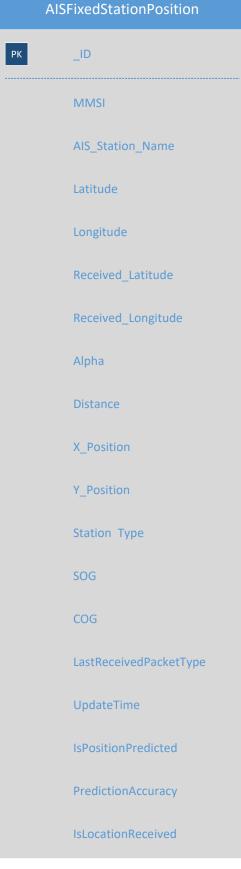




	Beta
PK	_id
	BetaValue
	UpdateTime

	AISMobileStation
РК	_ID
	MMSI
	AIS_Station_Name
	Latitude
	Longitude
	SOG
	COG
	Alpha
	Distance
	X_Position
	Y_Position
	UpdateTime
	isCalculated
	LastReceivedPacketType

Users	
PK	_id
	UserName
	Password



	BaseStations
РК	MMSI
	AIS_Station_Name
	IsOrigin

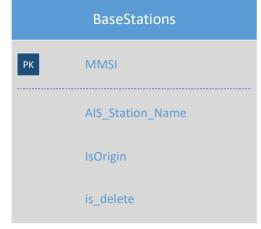
SampleMeasurement	StaticStation List Table	Waypoints	DeviceList
PK _ID	PK _ID	PK _ID	PK _ID
DeviceID	Station_Name	Latitude	DeviceID
Device_Name	X_Position	Longitude	Device_Name
Device_ShortName	Y_Position	X_Position	Device_ShortName
Operation	Station_Type	Y_Position	DeviceType
DeviceType	Alpha	UpdateTime	ConfigurationParameters
comment	Distance	LabelID	PK _ID
Latitude	Static Station Deleted Table	Label	ParameterName
Longitude	PK _id	Waypoints Deleted Table	Parameter Value Parameter Value
X_Position		PK _id	AlSStationList
Y_Position	StationName	labelID	PK MMSI
UpdateTime	DeleteTime	DeleteTime	AIS_Station_Name
LabelID	Users Deleted Table		
Label	PK _ID	BaseStation Deleted Table	Station List Deleted Table
	UserName	PK mmsi	PK mmsi
	DeleteTime	DeleteTime	DeleteTime

## AISStationList MMSI AIS\_Station\_Name is\_delete

	AISMobileStation	
PK	mmsi	
	AIS_Station_Name	

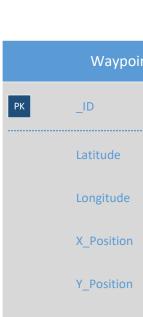
	Users
РК	_id
	UserName
	is_delete
	Password

AlSFixedStationPosition		
PK _ID		
MMSI		
AIS_Station_Name		
is_delete		
Latitude		
Longitude		
Received_Latitude		
Received_Longitude		
Alpha		
Distance		
X_Position		
Y_Position		
Station Type		
SOG		



	Sample Measurement		
PK	_ID		
	DeviceID		
	Device_Name		
	Device_ShortName		
	Latitude		
	Longitude		
	X_Position		
	Y_Position		

	DeviceList
PK	_ID
	DeviceID
	Device_Name
	Device_ShortNa
	DeviceType



TimeStamp

### ID

\_Name

\_ShortName

Туре

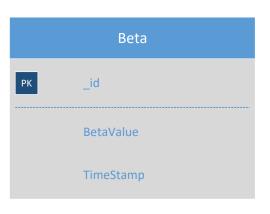
tude

gitude

osition

osition

eStamp



### ConfigurationParameters PK \_ID ParameterName ParameterValue

# StationList PK \_\_ID Station\_Name X\_Position Y\_Position Station\_Type Alpha Distance is\_delete

SOG	Y_Position
COG	Operation
LastReceivedPacketType	Device_type
	TimeStamp
Time_Stamp(SystemTime)	Label
IsPositionPredicted	Label ID
PredictionAccuracy	
IsLocationReceived	

TimeStamp

Label

Label\_ID

is\_delete

eStamp el el\_ID delete

## AISStationList MMSI AIS\_Station\_Name is\_delete

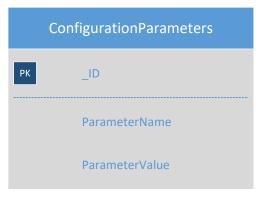
AISMobileStation		
PK	mmsi	
	AIS_Station_Name	

Users		
PK	_id	
	UserName	
	is_delete	
	Password	



	Beta	
PK	_id	
	BetaValue	
	TimeStamp	





AISStationList		
PK	MMSI	
	AIS_Station_Name	
	is_delete	

AISMobileStation		
PK	mmsi	
	AIS_Station_Name	

	Users
PK	_id
	UserName
	is_delete
	Password

StationList	
PK	_ID
	Station_Name



BaseStations

AIS\_Station\_Name

SampleMeasurement

\_ID

DeviceID

Latitude

Longitude

X\_Position

Y\_Position

Device\_Name

Device\_ShortName

PK

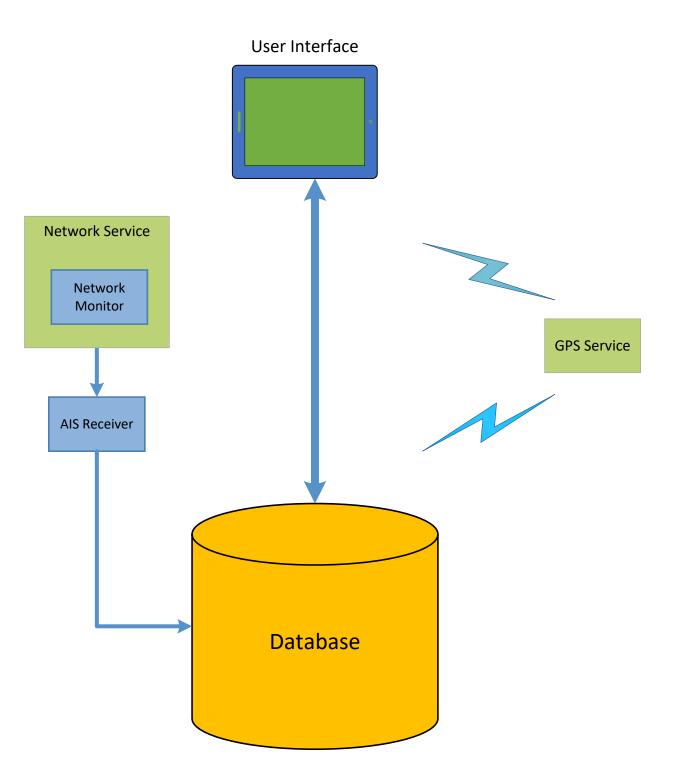
MMSI

IsOrigin

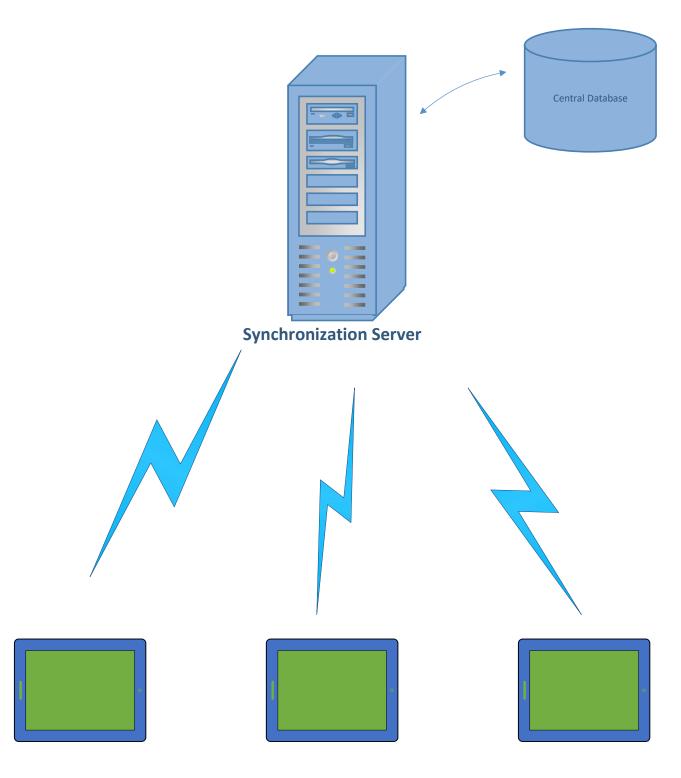
is\_delete

Station_Name	LastReceivedPacketType	Y_Position
X_Position	Time_Stamp(SystemTime)	Operation
Y_Position	IsPositionPredicted	Device_type
Station_Type	PredictionAccuracy	TimeStamp
Alpha	IsLocationReceived	Label
Distance		Label_ID
is_delete		

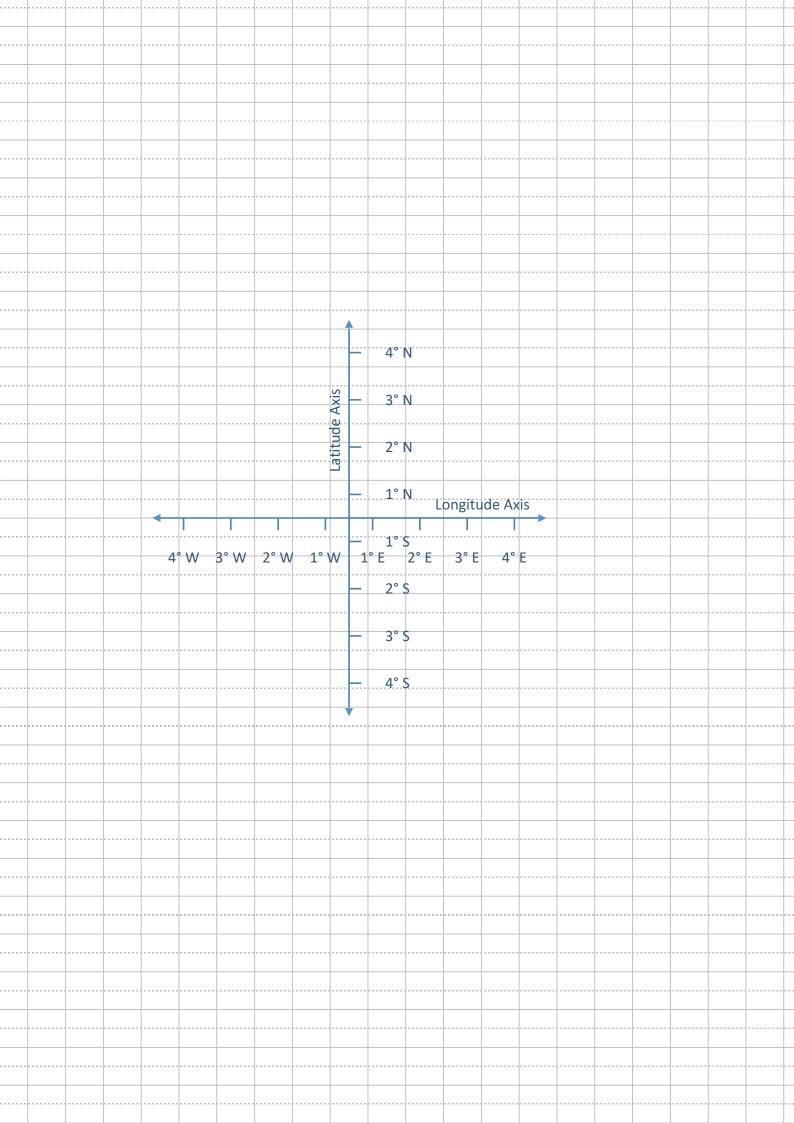
### **Services During First Use**

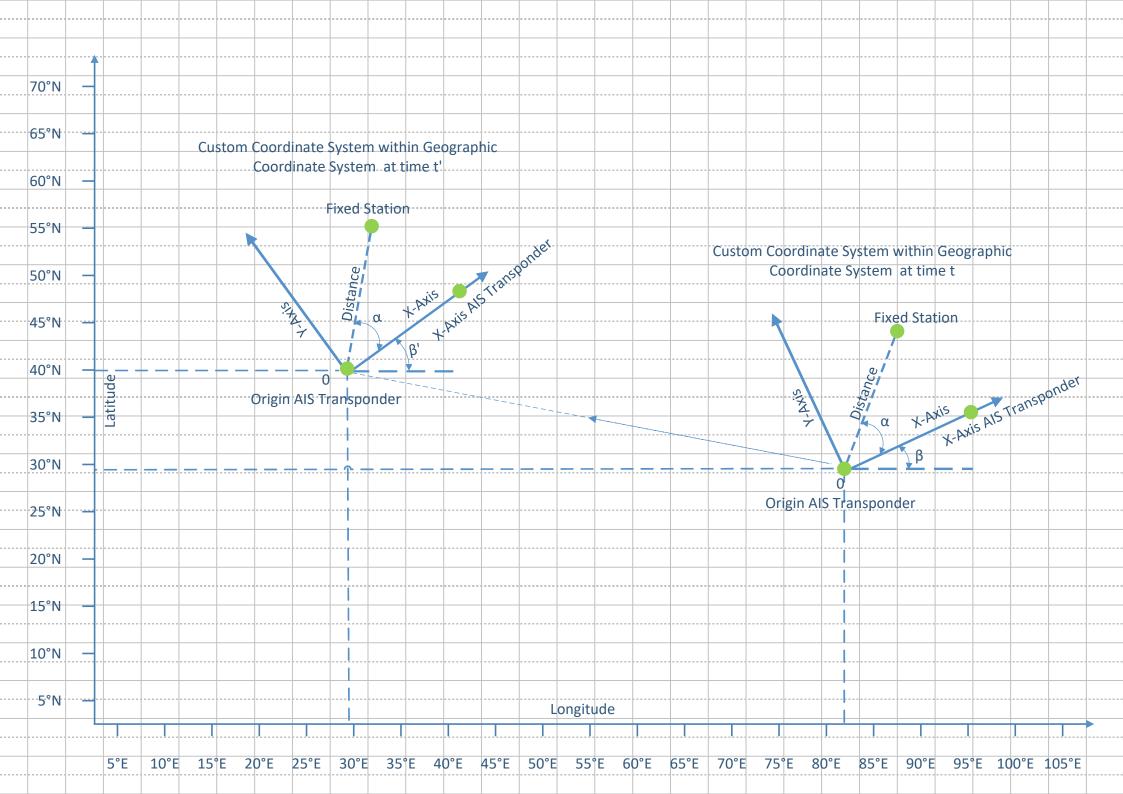


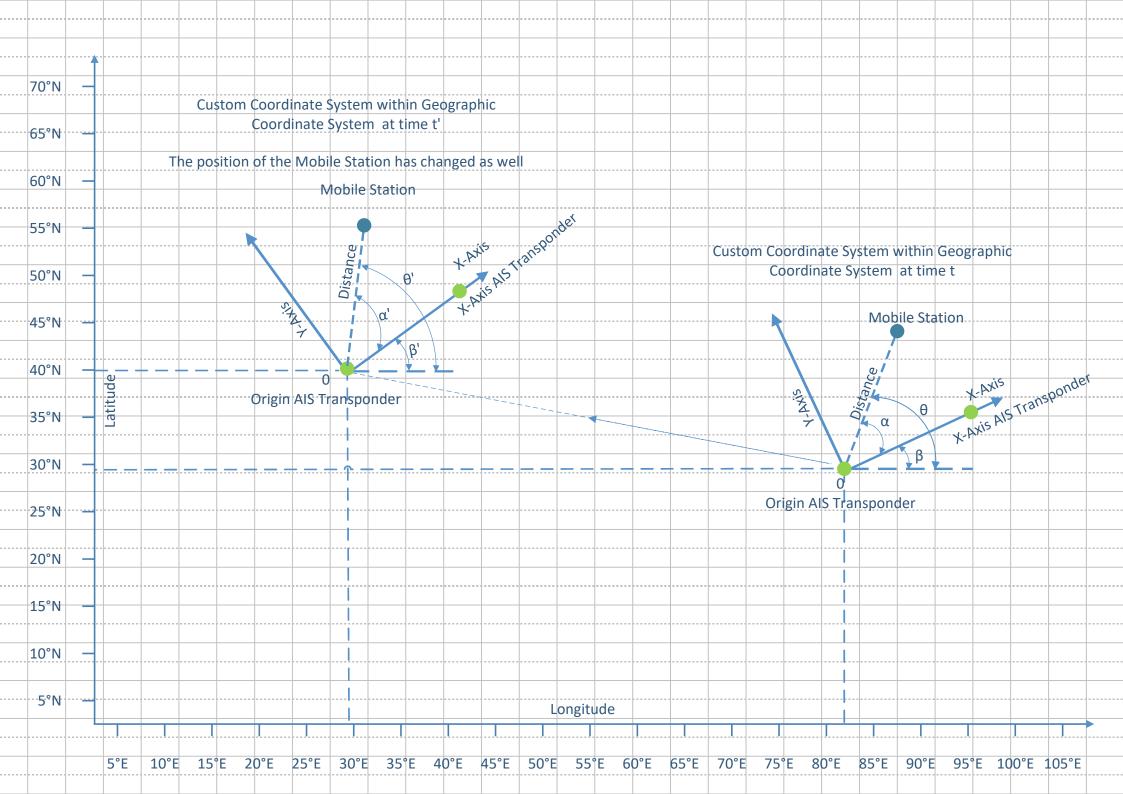
### Floe Navigation Synchronization

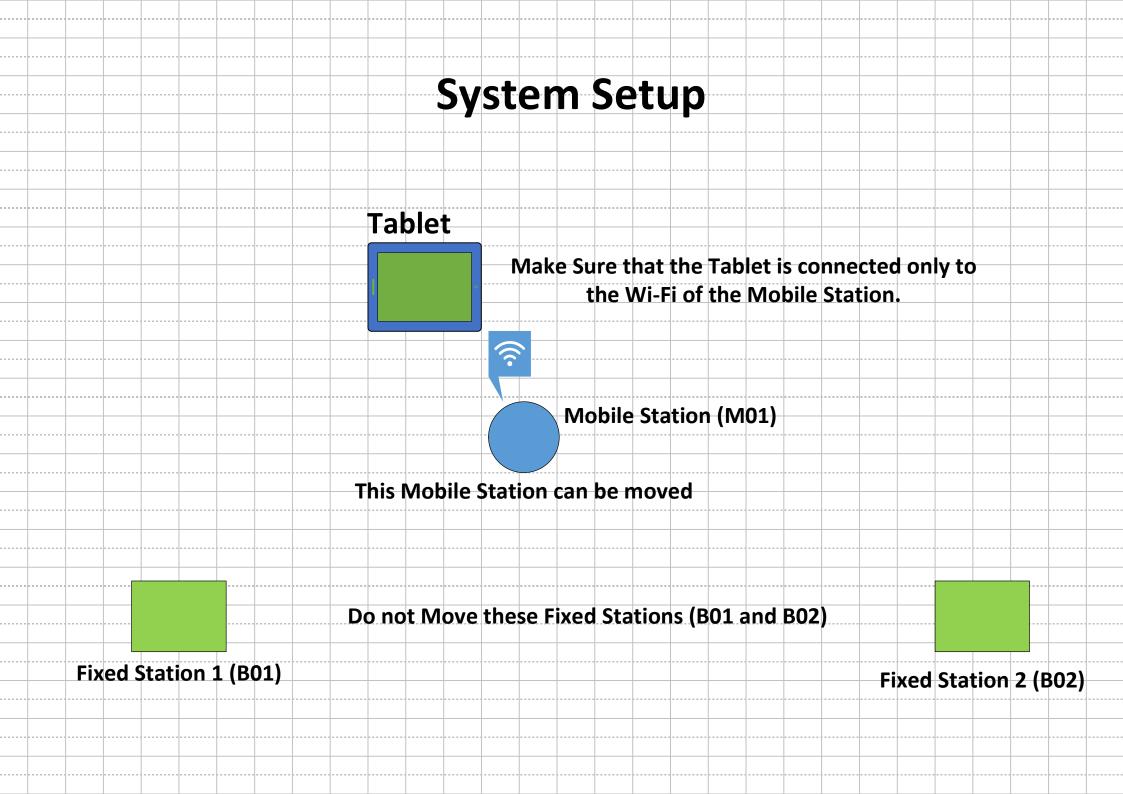


Tablets with Floe Navigation App









	70081																											
	70°N																											
•	55°N																											
(	50°N	_																										
	55°N	-+																										
	50°N	$\dashv$																										
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	‡5°N									Axis																		
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- 3	35°N	$\dashv$	Lat											T														
3	30°N																											
2	25°N																											
	20°N																											
	-0 14										_																	
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			5°E	10°E	15°E	20°E	25°E	30°E	35°	E 40	°E	45°E	50°E	55°	E 6	0°E	65°E	70°E	75°	'E 8	0°E	85°E	90°E	95	°E 10	00°E	105°E	