**iOPAS ASRS Communication**

Server Name ADGETECH (Should be configurable)

User ID cgh (Should be configurable)

Password ASRScgh (Should be configurable )

Data Base Name iOPAS\_CGH (Should be configurable)

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1. **ASRS\_Hearbeat\_Update**
2. ASRS\_Configuration\_Update
3. ASRS\_ Start\_Production
4. ASRS\_Stop\_Production
5. ASRS\_New\_Bin\_Validate
6. ASRS\_New\_Bin\_Update
7. ASRS\_GET\_Restocking\_Bin\_List
8. ASRS\_SET\_Restocking\_Bin\_Placed\_To\_Drawer\_Update
9. ASRS\_GET\_Rx\_DrugOrder
10. ASRS\_SET\_Rx\_Started
11. ASRS\_GET\_Drawer\_Open\_Request
12. ASRS\_SET\_Rx\_LineItem\_Drawer\_OP\_CL\_CA\_NP
13. ASRS\_SET\_Rx\_DrugOrder\_Complete
14. ASRS\_SET\_Bin\_Error\_Update

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1. Heart Beat (30 Sec) Update **ASRS\_Heartbeat\_Update**

**For every 30 seconds once GUI must be update heart beat signal. If update is more than 30 sec not received iOPAS assumed that ASRSS stop production.**

  Passing Parameter  @ASRSName varchar(10)

Return Value = 1 Success & = 2 Not Success

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1. **Machine Configuration Update** **ASRS\_Configuration\_Update**

When machine configuration changed GUI will call this sp and update current configuration .

  Passing Parameter  @ASRSName varchar(10),

@OperationMode int,

@ASRS\_E\_Left\_Arm\_Limit varchar(10),

@Counter1State varchar(20),

@Counter2State varchar(20),

@Counter3State varchar(20),

@Counter4State varchar(20)

@CycleStop varchar(10) – EX: True or False.

Ex: OperationMode (1 or 2)Pls refer FS.

ASRS\_E\_Left\_Arm\_Limit (Row 10 or 16)

Counter1State (Restocking Or Dispensing Or Closed).

Return Value

* 1 Success
* 2 Not Success

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1. Machine Start Production **ASRS\_Start\_Production**

  Passing Parameter  @ASRSName varchar(10)

Return Value:

* 1 Success
* 2 Not Success

1. Machine Stop Production **ASRS\_Stop\_Production**

  Passing Parameter  @ASRSName varchar(10)

Return Value:

* 1 Success
* 2 Not Success

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1. NEW Bin Arrival Validate **ASRS\_New\_Bin\_Validate**

Triggerthis procedure to get bin place location.

  Passing Parameter  @ASRSName varchar(10),

@BIN\_ID varchar(10),

@RobotArm\_Loc varchar (10)

EX : RobotArm\_Loc ( LEFT OR RIGHT) . For ASRS-E

(LEFT) For ASRS-S

Return Value:

* **'1' VALIDATION PASS).**
* **'2'** Zero inventory put back to restocking drawer.
* **'3'** Error bin system disabled. put back to restocking drawer
* **'4' Bin**Not Verified bin put back to restocking drawer.
* **'5'** Bin requested for restocking.
* **'6'** Drug minimum loading expiry date reached.
* **'7’** Brand Inactivated put back to restocking drawer
* **‘9’** Bin already in ASRS.
* **'10’** Invalid bin put back to restocking drawer
* **'11’** Wrong Location If left side counter then ask them to place Right side counter.

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1. NEW Bin Arrival Update **ASRS\_New\_Bin\_Update**

Triggerthis procedure to get bin place location.

  Passing Parameter  @ASRSName varchar(10),

@BIN\_ID varchar(10),

@RobotArm\_Loc varchar (10)

EX : RobotArm\_Loc ( LEFT OR RIGHT) . For ASRS-E

(LEFT) For ASRS-S

Return Value:

* **'1' Place the BIN to respective location .( Cell Location will be last 4 digit of BinID).**
* **'2'** Zero inventory put back to restocking drawer.
* **'3'** Error bin system disabled. put back to restocking drawer
* **'4' Bin**Not Verified bin put back to restocking drawer.
* **'5'** Bin requested for restocking.
* **'6'** Drug minimum loading expiry date reached.
* **'7’** Brand Inactivated put back to restocking drawer
* **‘9’** Bin already in ASRS.
* **'10’** Invalid bin put back to restocking drawer
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1. Get Restocking Bin List **ASRS\_GET\_Restocking\_Bin\_List**

Call this procedure to get if any restocking bin available .

  Passing Parameter  @ASRSName varchar(10)

@RobotArm\_Loc varchar (10)

Receiving Column Name (Data Set) BIN\_ID Varchar(10)

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8) Restocking Bin placed update. **ASRS\_SET\_Restocking\_Bin\_Placed\_To\_Drawer\_Update**

Once the restocking bin is placed to restocking drawer update the BinID to iOPAS.

  Passing Parameter @ASRSName varchar(10),

@CellID varchar(10),

@ErrorStatus varchar(50)

Return Value:

* 1 Success
* 2 Not Success

9) Get Rx order. **ASRS\_GET\_Rx\_DrugOrder**

Call this procedure to get if any Rx order available

Passing Parameter  @ASRSName varchar(10),

@CounterNumber Int

Receiving Column Name (Data Set) ASRS\_PickID Bigint,

Drug\_PickID Bigint,

RxNumber String,

ArticleID String,

CounterNumber int,

BINID String,

CellID String,

OrderGroupID Int

Ex : CounterNumber (1 or 2 or 3 or 4 ) .

ASRS\_PickID will be Rx level.

Drug\_PickID will be Line Item level.

OrderGroupID will be one line item split into multiple bin line item jumping should check this ID

**Return value will be No . Of Line item . If return value is -999 need to call ASRS\_Start\_production.**

1. SET Rx order started **ASRS\_SET\_Rx\_Started**

Call this procedure to update every Rx 1st bin retrieved and placed to drawer .

Passing Parameter  @ASRSName varchar(10),

@ASRSPickID Bigint

Return Value:

* 1 Success
* 2 Not Success

1. ASRS GET Drawer Open request **ASRS\_GET\_Drawer\_Open\_Request**

Call this procedure to get drawer open or Rx cancel request .

Passing Parameter  @ASRSName varchar(10),

@ASRSPickID Bigint

Return Value:

* 0 Call SP 2 sec later
* 1 Drawer can open
* 2 Rx Cancel

1. ASRS SET Rx Line item update **ASRS\_SET\_Rx\_LineItem\_Drawer\_OP\_CL\_CA\_NP**

Call this procedure to update every drawer “OPEN” , “CLOSE”, “CANCEL”, “NOT PACKED” status .

Passing Parameter  @Drug\_PickID Bigint,

@DrawerNumber Int,

@Status String,

@CycleTime time(7)

Ex : @Status possible values are “OPEN” , “CLOSE”, “CANCEL”, “NOT PACKED”)

NOT PACKED: If any line item bin cannot retrieve or barcode wrong should be update as Note Packed.

Return Value:

* 1 Success
* 2 Not Success

1. ASRS SET Rx Complete **ASRS\_SET\_Rx\_DrugOrder\_Complete**

Call this procedure to update Rx all Line item completed .

Passing Parameter  @ASRSName varchar(20),

@ASRSPickID Bigint

Return Value:

* 1 Success
* 2 Not Success

1. ASRS SET Error bin update **ASRS\_SET\_Bin\_Error\_Update**

Call this procedure to update dispensing bin validation fail .

Passing Parameter  @ASRSName varchar(20),

@BIN\_ID varchar(10),

@Reason varchar(50),

Return Value:

* 1 Success
* 2 Not Success