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SiLA Command Dictionary Specification

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Change history

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ActivateStopper

ID: SP 160; Rev: 3

The ActivateStopper command is used to do the stop moving objects (i.e. labware) on a conveyor belt.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
position	Int	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The ActivateStopper command is used to do the stop moving objects
    (i.e. labware) on a conveyor belt.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="position" minValue="1" maxValue="2147483647"> The position
    parameter represents a logical position of a stopper.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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AddLid

ID: SP 159; Rev: 3

The AddLid command is used to add a lid on an labware item.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```
<SiLACommandDescription isCommonCommand="true"
  estimatedDuration="xxxxxx">
  <Summary>The AddLid command is used to add a lid on an labware item.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the
    SiLA Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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Aspirate

ID: SP 162; Rev: 3

The Aspirate command is used to aspirate a predefined volume.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
volume	Int	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The Aspirate command is used to aspirate a predefined volume.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="volume" minValue="1" maxValue="2147483647"> This parameter
    defines the volume to be aspirated.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```


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AspirateFromSource

ID: SP 163; Rev: 4

The AspirateFromSource command is used to aspirate a predefined volume from a predefined source.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
volume	Int	false
source	xmlDocument	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The AspirateFromSource command is used to aspirate a predefined
    volume from a predefined source.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="volume" minValue="1" maxValue="2147483647"> This parameter
    defines the volume to be aspirated.
  </Parameter>
  <Parameter name="source"> This parameter defines the source location.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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AttachStack

ID: SP 164; Rev: 4

The AttachStack command is used to attach a stack at runtime.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
stackNumber	Int	false

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The AttachStack command is used to attach a stack at runtime.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="stackNumber" minValue="1" maxValue="2147483647"> This
    parameter defines the number of the attached stack.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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CalculateComplexPosition

ID: SP 101; Rev: 13

The CalculateComplexPosition command is used to do the inverse of the CalculatePositionId command. The SiLA Service Consumer may use this function to display the more user-friendly non-continuous numbering for the location of the labware.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
positionId	Int	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>This command is used to calculate the complex position.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="positionId" minValue="1" maxValue="2147483647"> The
    positionId parameter represents the position in a continuous numbering
    schema.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="1">
    <Description>
      Array of integer, that describes the position in different dimensions.
      E.g. «Stacker and Level» or «X,Y,Z» The length of the array is determined
      by the number of represented dimensions.
    </Description>
    <Value name="complexPosition" type="Int"/>
  </Response>
</SiLACommandDescription>

```

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CalculatePositionId

ID: SP 102; Rev: 16

The CalculatePositionId command is used to calculate the position of a storage location in an incubator from a set of up to 5 numbers in an alternative numbering scheme. In a carousel incubator, the stacker number and the number of the level within the stacker can be used. In a shelf based incubator the location of the shelves may be numbered in x and z direction and a shelf may use a 2 dimensional numbering for the location of the labware, such that the position is calculated from four parameters. The device can calculate the position from its current configuration.

The resulting position ID can directly be used in the commands for storing and retrieving.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
complexPosition	Array of Int	false

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>This command is used to calculate the position of a storage
    location.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="complexPosition" > This array of integer represents the
    location of the labware in multi dimensional notation.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="1">
    <Description>
      Returns the positionId in continuous numbering.
    </Description>
    <Value name="positionId" type="Int"/>
  </Response>
</SiLACommandDescription>
```

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Cap

ID: SP 165; Rev: 4

The Cap command is used to put a cap on a tube or caps on a tube rack.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
position	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The Cap command is used to put a cap on a tube or caps on a tube
    rack.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="position" minValue="1" maxValue="2147483647"> This
    parameter defines the position of the tube being capped in a tube rack.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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CloseGripper

ID: SP 166; Rev: 3

The CloseGripper command is used to close a gripper.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The CloseGripper command is used to close a gripper.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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CloseDoor

ID: SP 167; Rev: 7

The CloseDoor command is used to close one or more doors.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The CloseDoor command is used to close one or more doors.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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Decap

ID: SP 168; Rev: 3

The Decap command is used to decap one tube or all tubes of a tube rack.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
position	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The Decap command is used to decap one tube or all tubes of a tube
    rack</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="position" minValue="1" maxValue="2147483647"> This
    parameter is the position identification.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```


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Delay

ID: SP 169; Rev: 3

The Delay command is used to suspend command execution.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
duration	Duration	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The Delay command is used to suspend command execution..</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="duration"> This parameter defines suspend duration.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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Dispense

ID: SP 127; Rev: 14

The Dispense command is used to dispense a volume defined by a parameter. Detailed dispense settings such as liquid classes can be set at runtime by using the SetParameter Command.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
volume	Int	false
liquid	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>This command is used to dispense a volume defined by a parameter.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockid"> This parameter is the identification of the
    Service Consumer which has locked the device.
  </Parameter>
  <Parameter name="volume" minValue="xxx" maxValue="yyy" unit="zzz"> This
    parameter represent the volume to be dispensed.
  </Parameter>
  <Parameter name="liquid" minValue="xxx" maxValue="yyy"> The liquid parameter
    may be used to select the liquid to be dispensed in case that the
    dispenser is able to dispense more than one liquid by switching a valve
    for instance.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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DispenseByColumn

ID: SP 156; Rev: 10

The DispenseByColumn command is used to dispense liquid beginning at a start column and ending according to the stopColumn parameter. Detailed dispense settings such as liquid classes can be set during idle state by using the SetParameter command.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
volume	Int	false
liquid	Int	true
startColumn	Int	false
stopColumn	Int	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>This command is used to dispense a volume defined by a parameter.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockid"> This parameter is the identification of the
    Service Consumer which has locked the device.
  </Parameter>
  <Parameter name="volume" minValue="xxx" maxValue="yyy" unit="zzz"> This
    parameter represent the volume to be dispensed.
  </Parameter>
  <Parameter name="liquid" minValue="xxx" maxValue="yyy"> The liquid parameter
    may be used to select the liquid to be dispensed in case that the
    dispenser is able to dispense more than one liquid by using a valve for
    instance.
  </Parameter>
  <Parameter name="startColumn" minValue="1" maxValue="2147483647"> The
    startColumn parameter indicates the dispense start column.
  </Parameter>
  <Parameter name="stopColumn" minValue="1" maxValue="2147483647"> The
    stopColumn parameter indicates the dispense stop column.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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DispenseToDestination

ID: SP 170; Rev: 4

The DispenseToDestination command is used to dispense a predefined volume to a predefined destination location.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
volume	Int	false
destination	xmlDocument	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The DispenseToDestiantion command is used to aspirate a predefined
    volume from a predefined source.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="volume" minValue="1" maxValue="2147483647"> This parameter
    defines the volume to be dispensed.
  </Parameter>
  <Parameter name="destination"> This parameter defines the destination
    location.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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DownStack

ID: SP 171; Rev: 4

The DownStack command is used to release a labware item.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
stackNumber	Int	true

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The DownStack command is used to release a labware item.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="stackNumber" minValue="1" maxValue="2147483647"> This
    parameter defines the number of the stacker.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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EjectTip

ID: SP 172; Rev: 4

The EjectTip command is used to eject one or more tips.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
tipNumber	Int	true

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The EjectTip command is used to eject one or more tips.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="tipNumber" minValue="1" maxValue="2147483647"> This
    parameter defines the number of the tip.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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EmptyTubes

ID: SP 221; Rev: 1

The EmptyTubes command is used to empty the tubing.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
volume	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The EmptyTubes command is used to empty the tubing.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="volume" minValue="1" maxValue="2147483647"> This parameter
    defines the volume, which needs to be pumped in order to empty the tubing.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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Evaporate

ID: SP 173; Rev: 4

The Evaporate command is used to evaporate.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
duration	Duration	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The Evaporate command is used to evaporate.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="duration"> This parameter defines the duration of the
    evaporation.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```


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ExecuteMethod

ID: SP 174; Rev: 4

The ExecuteMethod command is used to start a previously defined method with the device control software.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
methodName	String	false
priority	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The ExecuteMethod command is used to start a start a previously
    defined method with the device control software.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="methodName"> This parameter defines the unique name of the
    method.
  </Parameter>
  <Parameter name="priority" minValue="1" maxValue="2147483647"> This
    parameter defines the execution priority. (smaller number means higher
    priority)
  </Parameter>
  <Response xsi:type="complexResponse">
    <Description>
      Returns the data generated by this method or a report about the method
      execution.
    </Description>
    <TypeName>xxxxxx</TypeName>
  </Response>
</SiLACommandDescription>

```

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ExecuteMethodFileName

ID: SP 175; Rev: 4

The ExecuteMethodFileName command is used to a start method that is stored in a file.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
methodName	String	false
priority	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The ExecuteMethodFileName command is used to a start method that
    is stored in a file.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="methodNameFileName"> This parameter defines the unique
    file name of the method.
  </Parameter>
  <Parameter name="priority" minValue="1" maxValue="2147483647"> This
    parameter defines the execution priority. (smaller number means higher
    priority)
  </Parameter>
  <Response xsi:type="complexResponse">
    <Description>
      Returns the data generated by this method.
    </Description>
    <TypeName>xxxxxx</TypeName>
  </Response>
</SiLACommandDescription>

```

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GetConfiguration

ID: SP 176; Rev: 2

The GetConfiguration command is used to retrieve the configuration of a device. It can only be invoked in the standby state.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
configLevel	Int	true
password	String	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The GetConfiguration command is used to retrieve the
    configuration of a device. It can only be invoked in the standby state.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647">
    This parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId">
    This parameter is the identification of the PMS which has locked
    the device.
  </Parameter>
  <Parameter name="configLevel" minValue="1" maxValue="2147483647">
    This parameter defines the access level.
  </Parameter>
  <Parameter name="password">
    This parameter contains the password for the corresponding configLevel.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="1">
    <Description>
      Returns the parameter set of the device as parameterName, value pair.
    </Description>
    <Value name="xxxxxx" type="xxxxxx"/>
    ...
  </Response>
</SiLACommandDescription>

```

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GetInventory

ID: SP 109; Rev: 18

The GetInventory command is used to generate a list of the readable labware identifiers (barcode, dotcode, RFID-tag) in the incubator (storage system). If the parameters inventoryStart and inventoryStop are not defined (null), the whole incubator will be scanned for identifiers. If the two parameters are the same, a single position can be read.

Systems providing a presence sensor may also report the presence of some labware without reporting a labware identifier.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
inventoryStart	Int	false
inventoryStop	Int	false
labwareType	xmlDocument	false

Documentation

Two types of responses are allowed: Alternative A uses a series of simple data pairs with the parameters positionId and code:

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```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> This command is used to generate an inventory list.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="inventoryStart" minValue="1" maxValue="2147483647"> This
    parameter represents the starting position in a continous numbering
    scheme for the inventory run.
  </Parameter>
  <Parameter name="inventoryStop"> minValue="1" maxValue="2147483647"> This
    parameter represents the end position in a continous numbering scheme
    for the inventory run.
  </Parameter>
  <Parameter name="labwareType"> The labwareType parameter may be used to
    transfer information about the labware that the device might need to
    access it correctly
  </Parameter>
  <Response xsi:type="standardResponse">
    <Description>
      Pairs of positionId and bar code
    </Description>
    <Value name="positionId" type="int" />
    <Value name="code" type="String" />
  </Response>
</SiLACommandDescription>

```

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Alternative B uses a SiLA-defined XML-scheme to represent the position and the code allowing to add additional levels of containers.

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> This command is used to generate an inventory list.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="inventoryStart" minValue="1" maxValue="2147483647"> This
    parameter represents the starting position in a continous numbering
    scheme for the inventory run.
  </Parameter>
  <Parameter name="inventoryStop"> minValue="1" maxValue="2147483647"> This
    parameter represents the end position in a continous numbering scheme
    for the inventory run.
  </Parameter>
  <Parameter name="labwareType"> The labwareType parameter may be used to
    transfer information about the labware that the device might need to
    access it correctly
  </Parameter>
  <Response xsi:type="complexResponse">
    <Description>
      Returns the inventory including inventoryStart and inventoryStop
      positions.
    </Description>
    <TypeName>SiLA_Inventory</TypeName>
  </Response>
</SiLACommandDescription>
```

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The SiLA_Inventory Type is defined as follows:

```
<?xml version="1.0" encoding="utf-8"?>
<xs:schema elementFormDefault="qualified" xmlns:xs="http://www.w3.org/2001/XMLSchema">
  <xs:element name="SubContainer" nillable="true" type="SubContainer" />
  <xs:complexType name="SubContainer">
    <xs:sequence>
      <xs:element minOccurs="0" maxOccurs="1" name="Name" type="xs:string" />
      <xs:element minOccurs="0" maxOccurs="1" name="Code" type="xs:string" />
      <xs:element minOccurs="0" maxOccurs="1" name="NumberOfSubContainers" type="xs:int" />
    </xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="SubContainers" type="ArrayOfSubContainer" />
    <xs:element minOccurs="0" maxOccurs="unbounded" name="CodesOfSubcontainers" type="ArrayOfPositionAndCode" />
  </xs:complexType>
  <xs:attribute name="ContainerName" type="xs:string" />
</xs:complexType>
<xs:simpleType name="Container">
  <xs:restriction base="xs:string">
    <xs:enumeration value="Plate" />
    <xs:enumeration value="Tube" />
    <xs:enumeration value="TubeRack" />
    <xs:enumeration value="Rack" />
    <xs:enumeration value="Shelf" />
    <xs:enumeration value="Stacker" />
    <xs:enumeration value="Box" />
    <xs:enumeration value="Alley" />
    <xs:enumeration value="Lane" />
    <xs:enumeration value="Hotel" />
    <xs:enumeration value="Incubator" />
    <xs:enumeration value="Freezer" />
    <xs:enumeration value="StorageSystem" />
    <xs:enumeration value="Other" />
  </xs:restriction>
</xs:simpleType>
<xs:complexType name="ArrayOfPositionAndCode">
  <xs:attribute name="Position" type="xs:integer" />
  <xs:attribute name="Code" type="xs:string" />
</xs:complexType>
<xs:complexType name="ArrayOfSubContainer">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="unbounded" name="SubContainer" nillable="true" type="SubContainer" />
  </xs:sequence>
  <xs:attribute name="ContainerType" type="Container" />
</xs:complexType>
<xs:element name="SiLA_Inventory" nillable="true" type="SiLA_Inventory" />
<xs:complexType name="SiLA_Inventory">
  <xs:sequence>
    <xs:element minOccurs="0" maxOccurs="1" name="DeviceName" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="DeviceType" type="Container" />
    <xs:element minOccurs="0" maxOccurs="1" name="Code" type="xs:string" />
    <xs:element minOccurs="1" maxOccurs="1" name="PositionsRangeMin" type="xs:int" />
    <xs:element minOccurs="1" maxOccurs="1" name="PositionsRangeMax" type="xs:int" />
    <xs:element minOccurs="0" maxOccurs="1" name="NumberOfSubContainers" type="xs:int" />
  </xs:sequence>
  <xs:element minOccurs="0" maxOccurs="1" name="SubContainers" type="ArrayOfSubContainer" />
  <xs:element minOccurs="0" maxOccurs="1" name="CodesOfSubContainers" type="ArrayOfPositionAndCode" />
</xs:complexType>
</xs:schema>
```

Example:

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```

<?xml version="1.0" encoding="utf-8" ?>
<SiLA_Inventory xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:noNamespaceSchemaLocation="SiLA_Inventory.xsd">
  <DeviceName>Cytomat Incubator</DeviceName>
  <DeviceType>Incubator</DeviceType>
  <PositionsRangeMin>1</PositionsRangeMin>
  <PositionsRangeMax>189</PositionsRangeMax>
  <NumberOfSubContainers>9</NumberOfSubContainers>
  <SubContainers ContainerType="Stacker">
    <SubContainer ContainerName="Stack 1">
      <NumberOfSubContainers>21</NumberOfSubContainers>
      <SubContainers ContainerType="Plate">
        <SubContainer ContainerName="Plate 1">
          <Code>XYZ0001</Code>
        </SubContainer>
        <SubContainer ContainerName="Plate 3">
          <Code>XYZ0003</Code>
        </SubContainer>
        <SubContainer ContainerName="Plate 21">
          <Code>XYZ0397</Code>
        </SubContainer>
      </SubContainers>
    </SubContainer>
    <SubContainer ContainerName="Stack 3">
      <NumberOfSubContainers>21</NumberOfSubContainers>
      <SubContainers>
        <SubContainer ContainerName="Plate 201">
          <Code>XYZ0772</Code>
        </SubContainer>
        <SubContainer ContainerName="Plate 205">
          <Code>XYZ0987</Code>
        </SubContainer>
        <SubContainer ContainerName="Plate 219">
          <Code>XYZ0567</Code>
        </SubContainer>
      </SubContainers>
    </SubContainer>
  </SubContainers>
</SiLA_Inventory>

```


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GetLabware

ID: SP 223; Rev: 1

The GetLabware command is used to retrieve a labware item from a numbered position and to hold it until it is placed at another location with the command PutLabware.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
PositionNumber	Int	false
backToJoint	Boolean	true
labwareType	xmlDocument	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The GetLabware command is used to retrieve a labware item
  from a numbered position and to hold it until it is placed at another
  location with the command PutLabware.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="fromPositionNumber" minValue="1" maxValue="2147483647">
    This parameter defines the source position of the labware item to move.
  </Parameter>
  <Parameter name="toPositionNumber" minValue="1" maxValue="2147483647"> This
    parameter defines the destination position of the labware item to move.
  </Parameter>
  <Parameter name="backToJoint"> This parameter defines if the movement is
    restricted to move back to the joint position after releasing the
    labware.
  </Parameter>
  <Parameter name="labwareType"> The labwareType parameter may be used to
    transfer information about the labware that the device might need to
    access it correctly
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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GetLastData

ID: SP 177; Rev: 2

The GetLastData command is used to a resend the last **xy**

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The GetLastData command is used to a resend the last xy
    data to the PMS. </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647">
    This parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId">
    This parameter is the identification of the PMS which has locked
    the device.
  </Parameter>
  <Response xsi:type="complexResponse">
    <Description>
      Returns the last xy data.
    </Description>
    <TypeName>xxxxxx</TypeName>
  </Response>
</SiLACommandDescription>

```

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GetParameters

ID: SP 148; Rev: 15

With this command the device reports the available parameters that can be set during the idle state to the PMS. The content of the response data depends on the device and can be different even for devices from the same device class.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> This command is used to retrieve the available parameter values
    of the device.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647">
    This parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId">
    This parameter is the identification of the PMS which has locked
    the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="1">
    <Description>
      Returns the parameter set of the device as parameterName, value pair.
    </Description>
    <Value name="xxxxxx" type="xxxxxx"/>
    ...
  </Response>
</SiLACommandDescription>

```

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GetTip

ID: SP 178; Rev: 4

The GetTip command is used to get or attach one or more tips.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
tipNumber	Int	true

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The GetTip command is used to get or attach one or more tips.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="tipNumber" minValue="1" maxValue="2147483647"> This
    parameter defines the number of the tip.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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GoToValvePosition

ID: SP 179; Rev: 4

The GoToValvePosition command is used to switch a valve.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
index	Int	false
direction	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The GoToValvePosition command is used to switch a valve.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="index" minValue="1" maxValue="2147483647"> This parameter
    defines valve position.
  </Parameter>
  <Parameter name="direction" minValue="1" maxValue="2147483647"> This
    parameter defines the switching direction.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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Home

ID: SP 180; Rev: 3

The Home command is used to move an axis or a robotic arm to its home position.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
index	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The Home command is used to move an axis or a robotic arm to its
    home position.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="index" minValue="1" maxValue="2147483647"> This parameter
    defines which home position shall be used in case of more than one is
    available.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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MeasureSample

ID: SP 181; Rev: 3

The MeasureSample command is used to initiate a measurement.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The MeasureSample command is used to initiate a measurement.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="complexResponse">
    <Description>
      Returns the results of the measurement.
    </Description>
    <TypeName>xxxxxx</TypeName>
  </Response>
</SiLACommandDescription>

```

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MoveAbsolute

ID: SP 182; Rev: 4

The MoveAbsolute command is used to move a robotic arm or axis to an absolute position.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
position	Int	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The MoveAbsolute command is used to move a robotic arm or axis to
    a absolute position.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="position" minValue="1" maxValue="2147483647"> This
    parameter is defines the position.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```


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MoveEndless

ID: SP 183; Rev: 4

The MoveEndless command is used to move a rotative motor endlessly.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
direction	Int	false
speed	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The MoveEndless command is used to move a rotative motor
    endlessly.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="direction" minValue="1" maxValue="2147483647"> This
    parameter is defines the direction to move.
  </Parameter>
  <Parameter name="speed" minValue="1" maxValue="2147483647"> This parameter
    is defines the speed to move.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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MoveLabware

ID: SP 186; Rev: 3

The MoveLabware command is used to move a labware from one position to another.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
fromPositionNumber	Int	false
toPositionNumber	Int	false
backToJoint	Boolean	true
labwareType	xmlDocument	true

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The MoveLabware command is used to move a robotic arm or an axis
    to a predefined position.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="fromPositionNumber" minValue="1" maxValue="2147483647">
    This parameter defines the source position of the labware item to move.
  </Parameter>
  <Parameter name="toPositionNumber" minValue="1" maxValue="2147483647"> This
    parameter defines the destination position of the labware item to move.
  </Parameter>
  <Parameter name="backToJoint"> This parameter defines if the movement is
    restricted to move back to the joint position after releasing the
    labware.
  </Parameter><Parameter name="labwareType"> The labwareType parameter may be
    used to transfer information about the labware that the device might
    need to access it correctly
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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MoveRelative

ID: SP 184; Rev: 3

The MoveRelative command is used to move a robotic arm or an axis relatively.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
distance	Int	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The MoveRelative command is used to move a robotic arm or an axis
    relatively.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="distance" minValue="1" maxValue="2147483647"> This
    parameter is defines the distance to move.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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MoveToPosition

ID: SP 185; Rev: 4

The MoveToPosition command is used to move a robotic arm or an axis to a (predefined) position.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
position	Int	false

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The MoveToPosition command is used to move a robotic arm or an
    axis to a predefined position.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="position" minValue="1" maxValue="2147483647"> This
    parameter defines the position to move to by a number.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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OpenDoor

ID: SP 224; Rev: 1

The OpenDoor command is used to release one or more doors.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The OpenDoor command is used to release one or more doors.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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OpenGripper

ID: SP 187; Rev: 3

The OpenGripper command is used to open a gripper.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The OpenGripper command is used to open a gripper.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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Peel

ID: SP 188; Rev: 3

The Peel command is used to remove a sealing foil.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The Peel command is used to remove a sealing foil.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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Pierce

ID: SP 189; Rev: 3

The Pierce command is used to pierce a sealing foil.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The Pierce command is used to pierce a sealing foil.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```


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PrepareForInput

ID: SP 139; Rev: 17

This command is used to put the device into a state where it can accept the next labware item. In special cases the device might also transfer the labware item to the indicated position already.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
position	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> This command puts the device into a state where it is ready to
    accept new labware
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockid"> This parameter is the identification of the
    Service Consumer which has locked the device.
  </Parameter>
  <Parameter name="position" minValue="1" maxValue="2147483647"> This
    parameter indicates the input position, needed if more than one is
    available.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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PrepareForOutput

ID: SP 143; Rev: 14

This command is used to put the device into a state to release a processed labware item or the present the labware at the indicated position so that it can be further process by the labware handling system.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
position	Int	true

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> This command puts the device into a state to release the processed
    labware.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
</Parameter>
  <Parameter name="lockid"> This parameter is the identification of the
    Service Consumer which has locked the device.
</Parameter>
  <Parameter name="position" minValue="1" maxValue="2147483647"> This
    parameter indicates the output position
</Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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Prime

ID: SP 132; Rev: 10

The Prime command is used to flush the tubing of the dispenser. It might be used when changing the liquid to be dispensed.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
volume	Int	false
liquid	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>This command is used to flush the tubing.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockid"> This parameter is the identification of the
    Service Consumer which has locked the device.
  </Parameter>
  <Parameter name="volume" minValue="xxx" maxValue="yyy" unit="zzz"> This
    parameter represent the volume to be dispensed.
  </Parameter>
  <Parameter name="liquid"> The liquid parameter may be used to select the
    liquid to be dispensed in case that the dispenser is able to dispense more
    than one liquid by using a valve for instance.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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PumpByDuration

ID: SP 190; Rev: 3

The PumpByDuration command is used to start a pump for a predefined duration.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
duration	Duration	false
speed	Int	true
direction	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The PumpByDuration command is used to start a pump for a
    predefined duration.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="duration"> This parameter defines the pumping duration.
  </Parameter>
  <Parameter name="speed" minValue="1" maxValue="2147483647"> This parameter
    defines the pumping speed
  </Parameter>
  <Parameter name="direction" minValue="1" maxValue="2147483647"> This
    parameter defines the pumping direction
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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PumpByVolume

ID: SP 191; Rev: 3

The PumpByVolume command is used to pump a predefined volume.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
volume	Int	false
speed	Int	true
direction	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The PumpByVolume command is used to pump a predefined
    volume.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="volume" minValue="1" maxValue="2147483647"> This parameter
    defines the pumping volume.
  </Parameter>
  <Parameter name="speed" minValue="1" maxValue="2147483647"> This parameter
    defines the pumping speed
  </Parameter>
  <Parameter name="direction" minValue="1" maxValue="2147483647"> This
    parameter defines the pumping direction
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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PutLabware

ID: SP 225; Rev: 1

The PutLabware command is used to transfer a formerly picked up labware item (with command GetLabware) to a numbered position.

Parameter

Name	Type	Nullable
requested	Int	false
lockId	String	true
PositionNumber	Int	false
backToJoint	Boolean	true
labwareType	xmlDocument	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The PutLabware command is used to transfer a formerly picked
up labware item (with command GetLabware) to a numbered position.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="fromPositionNumber" minValue="1" maxValue="2147483647">
This parameter defines the source position of the labware item to move.
  </Parameter>
  <Parameter name="toPositionNumber" minValue="1" maxValue="2147483647"> This
parameter defines the destination position of the labware item to move.
  </Parameter>
  <Parameter name="backToJoint"> This parameter defines if the movement is
restricted to move back to the joint position after releasing the
labware.
  </Parameter>
  <Parameter name="labwareType"> The labwareType parameter may be used to
transfer information about the labware that the device might need to
access it correctly
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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ReadAllAnalogInputs

ID: SP 226; Rev: 2

The ReadAllAnalogInputs command is used to readout the values at all ports of e.g. an analog IO module.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The ReadAllAnalogInputs command is used to readout the values
  at all ports of e.g. an analog IO module.

  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="1">
    <Description>
      Returns the values of the inputs of the IO module in a parameter set.
      (analog IO)
    </Description>
    <Value name="xxxxxx" type="Boolean"/>
    ...
  </Response>
</SiLACommandDescription>

```

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ReadAllDigitalInputs

ID: SP 193; Rev: 4

The ReadAllDigitalInputs command is used to readout the values all ports on e.g. a digital IO module.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The ReadAllDigitalInputs command is used to readout the
  values all ports on e.g. a digital IO module.

  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="1">
    <Description>
      Returns the values of the inputs of the IO module in a parameter set.
      (digital IO)
    </Description>
    <Value name="xxxxxx" type="Boolean"/>
    ...
  </Response>
</SiLACommandDescription>

```


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ReadAnalogInput

ID: SP 227; Rev: 1

The ReadAnalogInput command is used to readout one particular value of e.g. an analog IO module.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
index	Int	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The ReadAnalogInput command is used to readout one
    particular value of e.g. an analog IO module.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="1">
    <Description>
      Returns the value of the analog IO port.
    </Description>
    <Value name="xxxxxx" type="Boolean"/>
    ...
  </Response>
</SiLACommandDescription>

```

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ReadCode

ID: SP 194; Rev: 3

The ReadCode command is used to readout identification codes such as barcodes, dot codes or RFID codes.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The ReadCode command is used to readout identification codes such
    as barcodes, dot codes or RFID codes.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="1">
    <Description>
      Returns the value of the code reading.
    </Description>
    <Value name="code" type="string"/>
  </Response>
</SiLACommandDescription>
```

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ReadMultipleCodes

ID: SP 195; Rev: 3

The ReadMultipleCodes command is used to readout one or more identification codes such as barcodes, dot codes or RFID codes.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The ReadMultipleCodes command is used to readout one or more
    identification codes such as barcodes, dot codes or RFID codes.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="1">
    <Description>
      Returns the values of the code reading in a parameter set.
    </Description>
    <Value name="xxxxxx" type="string"/>

    ...
  </Response>
</SiLACommandDescription>

```

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ReadDigitalInput

ID: SP 196; Rev: 4

The ReadDigitalInput command is used to readout one particular value of e.g. an digital IO module.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
index	Int	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The ReadDigitalInput command is used to readout one
  particular value of e.g. an digital IO module.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="1">
    <Description>
      Returns the value of the digital IO port.
    </Description>
    <Value name="xxxxxx" type="Boolean"/>
    ...
  </Response>
</SiLACommandDescription>

```

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ReadPlate

ID: SP 197; Rev: 4

The ReadPlate command is used to readout all wells of a plate.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
index	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The ReadDigitalInput command is used to readout one particular value
  of e.g. an digital IO module.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="1">
    <Description>
      Returns the value of the digital IO port.
    </Description>
    <Value name="xxxxxx" type="Boolean"/>
    ...
  </Response>
</SiLACommandDescription>

```

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ReadWell

ID: SP 198; Rev: 4

The ReadWell command is used to readout one particular well.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
index	Int	true

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The ReadWell command is used to readout one particular well.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="index" minValue="1" maxValue="2147483647"> This parameter
    defines which well shall be read.
  </Parameter>
  <Response xsi:type="complexResponse">
    <Description>
      Returns the data generated by this command.
    </Description>
    <TypeName>xxxxxx</TypeName>
  </Response>
</SiLACommandDescription>
```

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RegisterStatusEventReceiverURI

ID: SP 150; Rev: 13

With this command an event receiver URI can be activated and the device sends its status events additionally to that URI. If the parameter eventReceiverURI is an URI already known, such as the one received by the Reset command, the device has to update the heartbeat-setting.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
eventReceiverURI	String	false
heartbeat	Duration	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> This command is used to register an event receiver uri.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647">
    This parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId">
    This parameter is the identification of the PMS, which has locked
    the device.
  </Parameter>
  <Parameter name="eventReceiverURI">
    This parameter defines the event receiver URI, which shall additionally
    be used for the status events.
  </Parameter>
  <Parameter name="heartbeat" minValue="xxxxxx">
    If this parameter is not omitted (null), Status Events will be sent
    cyclic. This parameter specifies the minimum time between two adjacent
    Status Events.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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ReleaseStack

ID: SP 199; Rev: 4

The ReleaseStack command is used to release a stack at runtime.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
stackNumber	Int	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The ReleaseStack command is used to release a stack at
    runtime.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="stackNumber" minValue="1" maxValue="2147483647"> This
    parameter defines the number of the released stack.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```


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RemoveLid

ID: SP 200; Rev: 4

The RemoveLid command is used to remove a lid on an labware item.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The RemoveLid command is used to remove a lid on an labware item.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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ResetDigitalOutput

ID: SP 228; Rev: 2

The ResetDigitalOutput command is used to reset a digital output port.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
index	Int	false
value	Boolean	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The ResetDigitalOutput command is used to reset a digital
  output port.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="index" minValue="1" maxValue="2147483647"> This parameter
    defines which output shall be set.
  </Parameter>
  <Parameter name="value"> This parameter defines the value of the output.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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RetrieveById

ID: SP 115; Rev: 14

The RetrieveById enables the retrieval of labware by means of the position identification.

Parameter:

Name	Type	Nullable
requestId	Int	false
lockId	String	true
position	Int	false
labwareType	xmlDocument	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>This command is used to retrieve a labware item by specifying the
    position identification.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  <Parameter name="lockId"> This parameter is the identification of the PMS,
    which has locked the device.
  </Parameter>
  <Parameter name="position"> The position parameter is used to specify which
    labware item shall be retrieved.
  </Parameter>
  <Parameter name="labwareType"> The labwareType parameter may be used to
    transfer information about the labware that the device might need to
    access it correctly
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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RetrieveByLabwareIdentifier

ID: SP 113; Rev: 15

The RetrieveByLabwareIdentifier enables the retrieval of labware by means of a labwareIdentifier such as a barcode, dot code, or RF-ID-tag. The device should know which labwareIdentifier can be found at which location. If it is not the case the device will either return the error code 5 or according to the configuration it can scan the whole storage space for the specified code and then retrieves the labware from the specific position. If an internal database or lookup table is available, the identifier code should be double checked before retrieval of the labware.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
labwareIdentifier	String	false
labwareType	xmlDocument	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>This command is used to get a specific labware item by an
    identifier.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  <Parameter name="lockId"> This parameter is the identification of the PMS,
    which has locked the device.
  </Parameter>
  <Parameter name="labwareIdentifier"> The labwareIdentifier represents the
    identification code of the labware (Barcode, dot code, RF-ID code, etc)
  </Parameter>
  <Parameter name="labwareType"> The labwareType parameter may be used to
    transfer information about the labware that the device might need to
    access it correctly
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="1">
    <Description>
      Returns the positionId of the retrieved labware.
    </Description>
    <Value name="positionId" type="Int"/>
  </Response>
</SiLACommandDescription>

```

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Rinse

ID: SP 134; Rev: 9

This command is used to prevent clogging of the manifold by a periodical rinse.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
rinseFrequency	Duration	false
rinseVolume	Int	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>This command is used to prevent clogging of the manifold by a
    periodical rinse.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockid"> This parameter is the identification of the
    Service Consumer which has locked the device.
  </Parameter>
  <Parameter name="rinseFrequency"> This parameter defines how many rinse
    cycles shall be performed
  </Parameter>
  <Parameter name="rinseVolume" minValue="xxx" maxValue="yyy" unit="zzz"> This
    parameter represents the volume to be dispensed.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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Seal

ID: SP 201; Rev: 3

The Seal command is used to seal a labware item.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The Seal command is used to seal a labware item.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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SetAnalogOutput

ID: SP 202; Rev: 3

The SetAnalogOutput command is used to set the value of an analog output.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
index	Int	false
value	Double	false

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The SetAnalogOutput command is used to set the value of an analog
    output.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="index" minValue="1" maxValue="2147483647"> This parameter
    defines which output shall be set.
  </Parameter>
  <Parameter name="value"> This parameter defines the value of the output.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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SetConfiguration

ID: SP 203; Rev: 2

The SetConfiguration command is used to set the configuration of a device. This command can only be executed in the standby state.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
configLevel	Int	true
password	String	true
configXML	xmlDocument	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The SetConfiguration command is used to set the configuration of
    a device. This command can only be executed in the standby state.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647">
    This parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId">
    This parameter is the identification of the PMS which has locked
    the device.
  </Parameter>
  <Parameter name="configLevel" minValue="1" maxValue="2147483647">
    This parameter is defines the access level.
  </Parameter>
  <Parameter name="password">
    This parameter contains the password for the corresponding configLevel.
  </Parameter>
  <Parameter name="configXML">
    The xml Document of configXML is formatted as stated in the ParameterSet
    tag.
    <ParameterSet>
      <Parameter parameterType="xxxxxx" name="yyyyyy">
        <xxxxxx>zzzzzz</xxxxxx>
      </Parameter>
      ...
    </ParameterSet>
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```


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SetLanguage

ID: SP 222; Rev: 1

The SetLanguage command is used to set the language of a device.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
Language-Enum	Enum	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The SetConfiguration command is used to set the configuration of
    a device. This command can only be executed in the standby state.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647">
    This parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId">
    This parameter is the identification of the PMS which has locked
    the device.
  </Parameter>
  <Parameter name="Language-Enum">
    This parameter defines the language the device should use.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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SetParameters

ID: SP 149; Rev: 16

The SetParameters command is used to set device class and device specific parameters in the state idle so that the new values are used for the next command invocation. Only the parameters that need to be changed have to be transmitted to the device.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
paramsXML	xmlDocument	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> This command is used to send new parameter values to the device.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647">
    This parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId">
    This parameter is the identification of the PMS, which has locked
    the device.
  </Parameter>
  <Parameter name="paramsXML">
    The xml Document of paramsXML is formatted as stated in the ParameterSet
    tag.
    <ParameterSet>
      <Parameter parameterType="xxxxxx" name="yyyyyy">
        <xxxxxx>zxxxxx</xxxxxx>
      </Parameter>
      ...
    </ParameterSet>
  </Parameter>
</SiLACommandDescription>

```

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SetDigitalOutput

ID: SP 204; Rev: 4

The SetDigitalOutput command is used to set the value of an digital output.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
index	Int	false
value	Boolean	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The SetResetDigitalOutput command is used to set or reset the value
    of an digital output.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="index" minValue="1" maxValue="2147483647"> This parameter
    defines which output shall be set.
  </Parameter>
  <Parameter name="value"> This parameter defines the value of the output.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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SetTag

ID: SP 229; Rev: 2

The SetTag command enables the PMS to transfer information (parameters and values) to a device, so that the device can add this information to the data stream it sends back to the PMS after an measurement operation (e.g. reader data).

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
tagsXML	xmlDocument	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The SetTag command enables the PMS to transfer information
    (parameters and values) to a device, so that the device can add
    this information to the data stream it sends back to the PMS after
    an measurement operation (e.g. reader data).</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="tagsXML">
    The xml Document of tagsXML is formatted as stated in the ParameterSet tag.
    <ParameterSet>
      <Parameter parameterType="xxxxxx" name="yyyyyy">
        <xxxxxx>zzzzzz</xxxxxx>
      </Parameter>
      ...
    </ParameterSet>
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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Shake

ID: SP 136; Rev: 10

This command is used to shake the labware.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
shakeDuration	Duration	false

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>This command is used to shake a labware item.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockid"> This parameter is the identification of the
    Service Consumer which has locked the device.
  </Parameter>
  <Parameter name="shakeDuration"> This parameter defines the shaking
    duration.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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Spin

ID: SP 205; Rev: 4

The Spin command is used to spin for a predefined duration.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
duration	Duration	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The ReleaseStack command is used to release a stack at
    runtime.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="duration"> This parameter defines the spin duration.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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StartTemperatureControl

ID: SP 210; Rev: 4

The StartTemperatureControl command is used to start the heating or cooling unit targeting a predefined temperature.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
temperature	Double	false
waitForCompletion	Boolean	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The StartTemperatureControl command is used to start the heating or
    cooling unit targeting a predefined temperature.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="temperature"> The temperature parameter defines the target
    temperature.
  </Parameter>
  <Parameter name="waitForCompletion"> This parameter defines, if the command
    send its response event only after reaching the target temperature.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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StopMethod

ID: SP 209; Rev: 4

The StopMethod command is to stop any command execution by stating the requested.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The StopMotion command is used to interrupt an ongoing movement.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```


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StopMotion

ID: SP 208; Rev: 4

The StopMotion command is used to interrupt an ongoing movement.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The StopMotion command is used to interrupt an ongoing movement.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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StopTemperatureControl

ID: SP 211; Rev: 4

The StopTemperatureControl command is used to stop the heating or cooling unit even while a StartTemperatureControl is not completed yet. If the StartTemperatureControl command was invoked with parameter waitForCompletion = true, the response event of the StartTemperatureControl command is issued after the response event of the StopTemperatureControl command.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The StopTemperatureControl command is used to stop the heating or
    cooling unit even while a StartTemperatureControl is not completed yet.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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StoreAtPosition

ID: SP 123; Rev: 9

With this command the labware item is stored at the defined position in the device.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
position	Int	false
labwareType	Complex type	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> This command is used to store a labware item at a predefined
    position.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  <Parameter name="lockId"> This parameter is the identification of the PMS,
    which has locked the device.
  </Parameter>
  <Parameter name="position"> The position parameter is used to specify at
    which position the labware shall be stored.
  </Parameter>
  <Parameter name="labwareType"> The labwareType parameter may be used to
    transfer information about the labware that the device might need to
    access it correctly
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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StoreImage

ID: SP 206; Rev: 5

The StoreImage command is used to save an image.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
filename	String	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The StoreImage command is used to save an image.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="filename"> This parameter defines the name of the file
    including the full local path of the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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StoreImageSeries

ID: SP 207; Rev: 5

The StoreImageSeries command is used to save multiple images. (the filename is composed of the filename parameter and a running number based on the counterStart value. The number is converted to a string with leading zeros and length 4 .)

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
filename	String	false
interval	Duration	false
counterStart	Int	false
counterEnd	Int	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The StoreImageSeries command is used to safe multiple
    images.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="filename"> This parameter defines the name of the file
    including the full local path of the device.
  </Parameter>
  <Parameter name="interval"> This parameter defines image interval.
  </Parameter>
  <Parameter name="counterStart" minValue="1" maxValue="2147483647"> This
    parameter defines the first filename suffix.
  </Parameter>
  <Parameter name="counterEnd" minValue="1" maxValue="2147483647"> This
    parameter defines the last filename suffix.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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Tare

ID: SP 212; Rev: 4

The Tare command is used to tare a balance.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```
<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The Tare command is used to tare a balance.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>
```

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TeachPosition

ID: SP 213; Rev: 4

The TeachPosition command is used to teach a position of an robotic arm and store it in the internal memory.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
positionNumber	Int	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The TeachPosition command is used to teach a position of an robotic
    arm and store it in the internal memory.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="positionNumber"> This parameter defines the position in the
    internal position repository.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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TransferLiquid

ID: SP 214; Rev: 4

The TransferLiquid command is used to aspirate a predefined volume from a predefined source and dispense it to a destination.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
volume	Int	false
source	xmlDocument	false
destination	xmlDocument	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The TransferLiquid command is used to aspirate a predefined volume
    from a predefined source and dispense it to a destination.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="volume" minValue="1" maxValue="2147483647"> This parameter
    defines the volume to be aspirated.
  </Parameter>
  <Parameter name="source"> This parameter defines the source location.
  </Parameter>
  <Parameter name="destination"> This parameter defines the destination
    location.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```


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TransferTube

ID: SP 215; Rev: 4

The TransferTube command is used to pick or punch a tube from one location to another.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
fromPosition	Int	false
toPosition	Int	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The TransferTube command is used to pick or punch a tube from one
    location to another.</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="fromPosition" minValue="1" maxValue="2147483647"> This
    parameter defines the source position of the tube to move.
  </Parameter>
  <Parameter name="toPosition" minValue="1" maxValue="2147483647"> This
    parameter defines the destination position of the tube to move.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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UnRegisterStatusEventURI

ID: SP 151; Rev: 14

With this command an event receiver URI can be inactivated and the device no longer sends its status events to that URI.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
eventReceiverURI	String	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> This command is used to unregister an event receiver uri.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647">
    This parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId">
    This parameter is the identification of the PMS which has locked
    the device.
  </Parameter>
  <Parameter name="eventReceiverURI">
    This parameter defines the event receiver URL which has to be
    unregistered.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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UpStack

ID: SP 216; Rev: 4

The UpStack command is used to load a labware item into the stacker.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
stackNumber	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The UpStack command is used to load a labware item into the
    stacker.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="stackNumber" minValue="1" maxValue="2147483647"> This
    parameter defines the number of the stacker.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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Wash

ID: SP 217; Rev: 4

The Wash command is used to wash a labware item.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
index	Int	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The Wash command is used to wash a labware item.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="index" minValue="1" maxValue="2147483647"> This parameter
    defines which wash method shall be used.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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Weigh

ID: SP 218; Rev: 5

The Weigh command is used to weigh an item.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary> The Weigh command is used to weigh an item.
</Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>
      Returns the measured weight value.
    </Description>
    <Value name="weight" type="Double"/>
  </Response>
</SiLACommandDescription>

```

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WriteCode

ID: SP 219; Rev: 4

The WriteCode command is used to write one single code to a label or a RFID tag.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
code	String	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The WriteCode command is used to write one single code to a label
    or a RFID tag.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="code"> This parameter contains the code to be written.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```

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WriteCodeSeries

ID: SP 220; Rev: 5

The WriteCodeSeries command is used to write continuous codes to labels or RFID tags.

Parameter

Name	Type	Nullable
requestId	Int	false
lockId	String	true
prefix	String	false
suffix	String	false
codeLength	Int	false
rangeStart	Int	false
rangeEnd	Int	false

Documentation

```

<SiLACommandDescription isCommonCommand="true" estimatedDuration="xxxxxx">
  <Summary>The WriteCodeSeries command is used to write continuous codes to
    labels or RFID tags.
  </Summary>
  <Parameter name="requestId" minValue="1" maxValue="2147483647"> This
    parameter is the unique identification of this command call.
  </Parameter>
  <Parameter name="lockId"> This parameter is the identification of the SiLA
    Service Consumer, which has locked the device.
  </Parameter>
  <Parameter name="prefix"> This parameter contains the prefix of the codes to
    be written.
  </Parameter>
  <Parameter name="suffix"> This parameter contains the suffix of the codes to
    be written.
  </Parameter>
  <Parameter name="codeLength" minValue="1" maxValue="2147483647"> This
    parameter represents the total number of characters.
  </Parameter>
  <Parameter name="rangeStart" minValue="1" maxValue="2147483647"> This
    parameter is the first number in the code series.
  </Parameter>
  <Parameter name="rangeEnd" minValue="1" maxValue="2147483647"> This
    parameter is the last number in the code series.
  </Parameter>
  <Response xsi:type="standardResponse" parameterSetCount="0">
    <Description>Empty response</Description>
  </Response>
</SiLACommandDescription>

```