

# ScotMoves+ web service guide

Scottish Cattle Traceability System

ScotEID

v1.0

31/03/2020

## Revision history

Version	Description of changes	Date
1.0	Initial version	11/5/2020

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# Overview

This documentation is intended as a companion piece to the ScotEID web service API documentation. It provides a greater level of practical detail about the web services for the ScotMoves+ System which will assume many of the cattle reporting responsibilities, currently managed by CTS.

N.B. These web services may be subject to change as development continues.

## Background

Scottish Government plan to transition the recording of cattle movements away from BCMS. As part of the transition much of the functionality currently provided by BCMS will move to ScotEID. This document describes the web services which will be developed to replace those currently provided by BCMS

## Transition from CTS

All of the GB administrations are planning to transition away from BCMS in the near future. Given current circumstances the timelines are difficult to predict.

To support legacy systems and to ensure that there is no loss of traceability for animals moving across the border it seems likely that CTS/BCMS will remain in place for a period of time after each administration has developed its own replacement system. During this period CTS/BCMS may continue to receive Scottish movement data from ScotEID but the web services and website is likely to be blocked for Scottish keepers.

Because CTS is likely to continue to be needed for a period of time after the transition it is important that the systems are compatible. This means that many of the data requirements for cattle movements are unlikely to change significantly. For instance the main holding number will continue to be used to identify a keeper.

## How the new system will operate

ScotMoves will be expanded to cover the registration of births, deaths and movements of cattle. Because reporting requirements remain the same the system will operate in a very similar manner to the current CTS system in order to maintain compatibility. The existing ScotMoves web services for within business movements will remain the same.

## Future developments

Scottish Government will be consulting on the introduction of EID for cattle, removal of passports, pre-notification and other possible changes to the way movements are recorded. This may lead to changes which will require updates to the proposed web services. A date for the consultation and the legislative changes have not yet been set. However, it is unlikely that there will be any significant changes until a significant period after births, deaths and movement recording have moved to ScotEID.

## ScotMoves

### What is ScotMoves?

ScotMoves was introduced in 2017 as the Scottish replacement for the linked holding arrangement operated by CTS. It allows keepers who move cattle within their business to do so without having to report the movement to the Cattle Tracing System (CTS) whilst remaining compliant with Regulation (EC) 1760/2000. Births, deaths and movements involving a change of keepership are still reported to CTS.

In the first year of operation there were as many within business moves (½ million) recorded on ScotMoves as the total number of on farm movements recorded on CTS.

Scottish Government's intention is that the existing ScotMoves system be expanded to facilitate the recording of births, deaths and change of keepership movements.

### Further information on ScotMoves

More information about ScotMoves can be found in the link below.

<https://www.scoteid.com/scoteid/wbm/ScotMoves/guidance>

## Web Services Overview

The existing ScotMoves web service will remain in place. Births, deaths and movements outside of keepership are being added.

### Web services available

Currently available ScotMoves web services:

- Within business moves
  - SMCreateCattleMovements
  - SMCancelCattleMovement

- Allocate brought-in cattle
  - SMAAllocateCattle
- Get holdings
  - SMGetCattleHoldings
- Get cattle on holding
  - SMGetCattleOnHolding
- Get cattle on holdings
  - SMGetCattleOnHoldings

Proposed web services to be made available:

- Calf registration
  - SMECreateCattleBirthRegistrationsRequest
- Cattle death
  - SMECreateCattleDeathsRequest
- Cattle movement (change of keepership)
  - SMECreateCattleMovementsRequest
- Animal details
  - SMEGetCattleDetailsRequest
- Holding Details
  - GetHoldingDetailsRequest
- Tags issued to holding
  - SMEGetIssuedCattleTagsRequest
- Unregistered calf death\*
  - SMECreateUnregisteredCalfDeathRequest
- Carcase disposal\*
  - SMECarcaseDisposalStructure (just structure at moment)

## Validations

The validations in place for the existing ScotMoves web services are described in the section for each web service. The validations for the new web services are currently under development. However, to maintain compatibility with CTS for the purposes of UK traceability, it is envisioned that these will largely follow the existing CTS validations.

## Create & allocate requests

Generally each create or allocate request should have a unique Row attribute specified which is used to reference the appropriate result in the response.

Each result consists of a **Status** (success or error), a **MovementReference** (if successful and depending on the request), **Row** to indicate which movement the result corresponds to and potentially a collection of **Errors**.

## Errors

An example error response is shown below. Error messages will usually return the submission row where the error was encountered, a severity level, a description of the problem encountered and a code for the error. Where possible the error codes will follow those currently used by CTS. Each error has a severity level, either “fatal” or “warning”. A “fatal” error means that the submission has been unsuccessful and has not been saved. A “warning” is an advisory that the data submitted may require further evaluation.

```
<ResultStatus="error"Row="1">
  <Errors>
    <Error Field="DamID" Severity="fatal" Message="Not found on main
holding" Code="CTWS199" />
  </Errors>
</Result>
<ResultStatus="success"Row="2"/>
```

## Currently available web services

### Record within business moves

SMCreateCattleMovements allows multiple movements between a keeper's main holding and additional holdings. The additional holdings must be registered on ScotEID. Additional holdings must be renewed annually.

The web service will return a unique movement reference number for every successfully recorded movement.

### Example Request

```
<soapenv:Header/>
<soapenv:Body>
  <api:SMCreateCattleMovementsRequest>
    <ApplicationName>ScotEID Desktop</ApplicationName>
    <ApplicationVersion>1.0</ApplicationVersion>
    <ApplicationKey><!-- your key here --></ApplicationKey>
    <SchemaVersion>1.7</SchemaVersion>
    <Timestamp>2016-12-21T13:42:00</Timestamp>
    <Movements>
      <!--Zero or more repetitions:-->
      <Movement Row="1"
        AnimalID="UK1234560001234"
```



```

        DepartureLocation="12/123/1234"
        DestinationLocation="23/234/2345"
        MoveDate="2019-01-01"
        UserReference="optional user ref" />
    <Movement Row="2"
        AnimalID="UK1234560001236"
        DepartureLocation="23/234/2345"
        DestinationLocation="12/123/1234"
        MoveDate="2019-02-01"
        UserReference="Return home" />
    <Movement Row="3"
        AnimalID="UK1234560001237"
        DepartureLocation="12/123/1234"
        DestinationLocation="23/234/2345"
        MoveDate="2019-03-01"/>
</Movements>
</api:SMCreateCattleMovementsRequest>
</soapenv:Body>

```

## Example Response

```

<SOAP-ENV:Body>
  <ns1:SMCreateCattleMovementsResponse>
    <Timestamp>2016-12-22T12:39:58Z</Timestamp>
    <Results>
      <Result Status="success" MovementReference="123" Row="1"/>
      <Result Status="success" MovementReference="124" Row="2">
        <Errors>
          <Error Field="move_date"
Severity="warning"
Message="description of warning here" />
        </Errors>
      </Result>
      <Result Status="error" Row="3">
        <Errors>
          <Error Field="move_date"
Severity="fatal"
Message="description of fatal error here"/>
        </Errors>
      </Result>
    </Results>
  </ns1:SMCreateCattleMovementsResponse>

```

</SOAP-ENV:Body>

## Validations

Field	Validations
AnimalID	Checksum validation Length <= 14 Length > 6 Tag has been issued Animal is currently recorded on departure holding Duplicate movement check Animal movement history is complete Animal is recorded on users main CPH
DepartureLocation DestinationLocation	Is registered to user Holding is not a landless keeper Holding is not a mart abattoir or Vi unit
MoveDate	>= 2017-01-01 < + 20 DAYS

## Cancel within business moves

This can be used to correct an incorrect upload by cancelling the incorrect movement and recreating.

## Example Request

```
<soapenv:Header/>
<soapenv:Body>
  <api:SMCancelCattleMovementRequest>
    <ApplicationName>ScotEID Desktop</ApplicationName>
    <ApplicationVersion>1.0</ApplicationVersion>
    <ApplicationKey><!-- your key here --></ApplicationKey>
    <SchemaVersion>1.7</SchemaVersion>
    <Timestamp>2016-12-21T13:42:00</Timestamp>
    <MovementReference>1345</MovementReference>
  </api:SMCancelCattleMovementRequest>
</soapenv:Body>
```

## Example Response

```
<SOAP-ENV:Envelope
xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:ns1="http://api.scoteid.com/api/">
  <SOAP-ENV:Body>
    <ns1:SMCancelCattleMovementResponse>
      <Timestamp>2016-12-22T12:23:41Z</Timestamp>
      <Result Status="success"/>
    </ns1:SMCancelCattleMovementResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

## Validations

Field	Validations
MovementReference	MovementReference exists Movement was recorded by user

## Allocate brought-in cattle

Cattle which are recorded as moving to a keeper's main CPH will automatically be allocated to the default additional holding that the keeper has chosen. If the keeper has not chosen a default additional holding then the animal(s) must be allocated to an initial holding on ScotMoves. This can be the main holding or one of the additional holdings that have been registered on ScotMoves.

This is to cater for the scenario where an animal(s) have been recorded moving to a keeper's main CPH but the animal actually moved directly to one of the keeper's additional holdings. If the animal physically moves to the keepers main holding first and then to an additional holding then the animal should be allocated to the main holding and a movement to the additional holding should then be recorded using **SMCreateCattleMovements**.

Please note that ScotEID.com website users are able to select a default holding for new cattle to be allocated to.

Multiple allocations can be submitted in a single request. Each allocation should have a unique Row attribute specified which is used to reference the appropriate result in the response.

Results have a status (success or error) and optionally a collection of errors with severity warning or fatal. Errors with the status warning are advisory only.

## Example Request

```
<soapenv:Header/>
<soapenv:Body>
  <api:SMAAllocateCattleRequest>
    <ApplicationName>ScotEID Desktop</ApplicationName>
    <ApplicationVersion>1.0</ApplicationVersion>
    <ApplicationKey><!-- your key --></ApplicationKey>
    <SchemaVersion>1.7</SchemaVersion>
    <Timestamp>2016-12-22T12:16:27Z</Timestamp>
    <Allocations>
      <Allocation Row="1"
        InitialCPH="65/123/1234"
        AnimalID="UK543210123456"/>
      <Allocation Row="2"
        InitialCPH="65/123/1234"
        AnimalID="UK543210123557"/>
    </Allocations>
  </api:SMAAllocateCattleRequest>
</soapenv:Body>
```

## Example Response

```
<SOAP-ENV:Body>
  <ns1:SMAAllocateCattleResponse>
    <Timestamp>2016-12-22T12:16:38Z</Timestamp>
    <Results>
      <Result Status="error" Row="1">
        <Errors>
          <Error Field="AnimalID" Severity="fatal" Message="Not
found on main holding"/>
        </Errors>
      </Result>
      <Result Status="success" Row="2"/>
    </Results>
  </ns1:SMAAllocateCattleResponse>
</SOAP-ENV:Body>
```

## Validations

Field	Validations
AnimalID	Checksum validation Length <= 14 Length > 6 Tag has been issued Animal movement history is not broken Animal is recorded on users main CPH
InitialCPH	Is registered to user

## Get Cattle Holdings

Retrieve a list of currently active additional holdings registered on ScotMoves along the main holding for each. Each holding will have CPH, MainCPH, StartDate and EndDate attributes.

### Example Request

```
<soapenv:Body>
  <api:SMGetCattleHoldingsRequest>
    <ApplicationName>ScotEID Desktop</ApplicationName>
    <ApplicationVersion>1.0</ApplicationVersion>
    <ApplicationKey><!-- your key here --></ApplicationKey>
    <SchemaVersion>1.7</SchemaVersion>
    <Timestamp>2016-12-21T13:42:00</Timestamp>
  </api:SMGetCattleHoldingsRequest>
</soapenv:Body>
```

### Example Response

```
<SOAP-ENV:Body>
  <ns1:SMGetCattleHoldingsResponse>
    <Timestamp>2016-12-22T12:22:35Z</Timestamp>
    <Holdings>
      <Holding CPH="65/123/1234"
MainCPH="65/123/1234"
StartDate="2017-01-01Z"
EndDate="2017-12-31Z"/>
      <Holding CPH="65/123/1235"
MainCPH="65/123/1234"
StartDate="2017-01-01Z"
EndDate="2017-12-31Z"/>
```

```

    </Holdings>
  </ns1:SMGetCattleHoldingsResponse>
</SOAP-ENV:Body>

```

## Get cattle on holding

This request retrieves a list of cattle that are on the specified holding according to ScotMoves. Note that fetching a list of cattle on your main holding will only return a list of cattle on that holding on ScotMoves which will often be a subset of the cattle on that holding according to CTS. Each animal will show the **InitialCPH** within ScotMoves that the animal has been allocated to and the **currentCPH** field shows the location the animal is currently recorded on.

## Example Request

```

<soapenv:Header/>
<soapenv:Body>
  <api:SMGetCattleOnHoldingRequest>
    <ApplicationName>ScotEID Desktop</ApplicationName>
    <ApplicationVersion>1.8</ApplicationVersion>
    <ApplicationKey><!-- your key here --></ApplicationKey>
    <SchemaVersion>1.7</SchemaVersion>
    <Timestamp>2016-12-22T11:06:24Z</Timestamp>
    <HoldingNumber>12/1234/1234</HoldingNumber>
  </api:SMGetCattleOnHoldingRequest>
</soapenv:Body>

```

## Example Response

```

<SOAP-ENV:Body>
  <ns1:SMGetCattleOnHoldingResponse>
    <Timestamp>2016-12-22T12:17:55Z</Timestamp>
    <Animals>
      <Animal AnimalID="UK54321012345" InitialCPH="65/123/1234"
Sex="Male" DOB="2013-03-19" BirthCPH="08/161/0025" BreedCode="BSH"
GeneticDamID="UK121060400049" SireID="UK529999700001"/>
      <Animal AnimalID="UK54321012345" InitialCPH="65/123/1234"
Sex="Female" DOB="2016-03-27" BirthCPH="73/281/0024" BreedCode="SMX"
GeneticDamID="UK500122400934" SireID="UK529999700001"/>
    </Animals>
  </ns1:SMGetCattleOnHoldingResponse>
</SOAP-ENV:Body>

```

## Get cattle on all holdings

This request retrieves a list of cattle that are registered against the user's main CPH. The field CurrentCPH describes which registered holding the animal is currently recorded on.

### Example Request

```
<soapenv:Header/>
<soapenv:Body>
  <api:SMGetCattleOnHoldingRequest>
    <ApplicationName>ScotEID Desktop</ApplicationName>
    <ApplicationVersion>1.0</ApplicationVersion>
    <ApplicationKey><!-- your key here --></ApplicationKey>
    <SchemaVersion>1.7</SchemaVersion>
    <Timestamp>2016-12-22T11:06:24Z</Timestamp>
    <HoldingNumber>12/1234/1234</HoldingNumber>
  </api:SMGetCattleOnHoldingRequest>
</soapenv:Body>
```

### Example Response

```
<SOAP-ENV:Body>
  <ns1:SMGetCattleOnHoldingResponse>
    <Timestamp>2016-12-22T12:17:55Z</Timestamp>
    <Animals>
      <Animal AnimalID="UK54321012345" InitialCPH="65/123/1234"
CurrentCPH="65/123/1234" />
      <Animal AnimalID="UK54321012345" InitialCPH="65/123/1234"
CurrentCPH="65/123/1234"/>
    </Animals>
  </ns1:SMGetCattleOnHoldingResponse>
</SOAP-ENV:Body>
```

# ScotMoves+ web services

## Registering births

### Overview

The webservice SMECreateCattleBirthRegistrationsRequest registers a calf on ScotEID. Birth CPH will be assumed to be the holding on which the dam is currently recorded on ScotEID.

All of the data fields are required except Sire ID. However, we would strongly encourage the Sire ID to be recorded where known. Sire ID is not subject to cross compliance and there are potentially significant benefits to the keeper and the industry in recording this information, as identified in the [Beef 2020 report](#).

### Example Request

The example belows shows two births being registered at the same time.

```
<soapenv:Header/>
<soapenv:Body>
  <api:SMECreateCattleBirthRegistrationsRequest>
    <ApplicationName>ScotEID desktop application</ApplicationName>
    <ApplicationVersion>1.0</ApplicationVersion>
    <ApplicationKey><!-- your key here --></ApplicationKey>
    <SchemaVersion>1.7</SchemaVersion>
    <Timestamp>2020-03-01T12:57:11+01:00</Timestamp>
    <CattleBirthRegistrations>
      <!--Zero or more repetitions-->
      <CattleBirthRegistration Row="1" AnimalID="UK543210012345"
MainCPH="79/435/0157" Sex="Male" DOB="2020-03-02" AnimalAlias="Calf1"
BirthCPH="79/435/0157" BreedCode="AA" DamID="UK543210054322"
GeneticDamID="UK543210054322" SireID="UK590000123456"/>
      <CattleBirthRegistration Row="2" AnimalID="UK543210012346"
MainCPH="79/435/0157" Sex="Female" DOB="2020-03-01" AnimalAlias="Calf2"
BirthCPH="79/435/0157" BreedCode="AA" DamID="UK543210054321"
GeneticDamID="UK543210054321" SireID="UK590000123456"/>
    </CattleBirthRegistrations>
  </api:SMECreateCattleBirthRegistrationsRequest>
```



```
</soapenv:Body>
```

## Example Response

The Dam for the first calf has not been found as being registered to the main holding provided in the request so the registration of the first calf has failed. The second calf has been successfully registered.

```
<Results>
  <ResultStatus="error"Row="1">
    <Errors>
      <Error Field="DamID" Severity="fatal" Message="Not found on main
holding" Code="CTWS199" />
    </Errors>
  </Result>
  <ResultStatus="success"Row="2"/>
</Results>
```

## Validations

These are still in development. They will largely follow CTS validations in order to maintain compatibility with legacy systems.

## Recording Movements

Both the departure and the destination main CPH are required for movements in order to satisfy the legal requirements for an online holdings register. For a change of business movement both keepers will be required to report the movement (as is presently the case).

For within business movements both the DepartureMainCPH and DestinationMainCPH should be given as the keeper's main holding. This means the movement will be treated the same as the current ScotMoves movements web service and it will be treated as a within business move.

DestinationLocation can be used to record the location the animal is being physically moved to. If the destination keeper has a ScotMoves account this will automatically allocate the animal to that location within their account, so the destination keeper no longer needs to make the allocation. It is envisioned that it will mainly be marts which wish to record this information on their customers behalf.

For a movement to/from a Scottish mart or abattoir there is no requirement on the consigning/receiving keeper to record the movement. The mart/abattoir will report both ends of the movement on the keepers behalf.

Marts & Abattoirs should supply the lot/kill number in the UserReference field.

## Example Request

In the example below two moves have been reported.

In the first move an animal has been sold to the keeper registered to main CPH 79/435/0199. If the animal moved to one of the destination keeper's additional holdings then the keeper will be responsible for allocating the animal to the correct CPH.

In the second example the DestinationLocation of the animal has been recorded so the destination keeper will not need to allocate the animal.

```
<soapenv:Header/>
<soapenv:Body>
  <api:SMECreateCattleMovementsRequest>
    <ApplicationName>ScotEID desktop application</ApplicationName>
    <ApplicationVersion>1.0</ApplicationVersion>
    <ApplicationKey><!-- your key here --></ApplicationKey>
    <SchemaVersion>1.7</SchemaVersion>
    <Timestamp>2020-03-01T12:57:11+01:00</Timestamp>
    <CattleMovements>
      <!--Zero or more repetitions:-->
      <CattleMovement Row="1" AnimalID="UK543210123456"
DepartureMainCPH="79/435/0157" DestinationMainCPH="79/435/0153"
MoveDate="2020-03-01" UserReference="Sold to Stuart"/>
      <CattleMovement Row="2" AnimalID="UK543210123457"
DepartureMainCPH="79/435/0157" DestinationMainCPH="89/702/0001"
DestinationLocation="79/435/0199" MoveDate="2020-03-01" UserReference="Lot
1">
        <!--Optional: EID data-->
        <AnimaleID ISO24631="1 0 04 00 0 826054321023457" Hex=""
TID="" Timestamp=""/>
      <CattleMovement/>
    </CattleMovements>
  </api:SMECreateCattleMovementsRequest>
</soapenv:Body>
```

## Example Response

```
<SOAP-ENV:Body>
  <ns1:SMCreateCattleMovementsResponse>
    <Timestamp>2016-12-22T12:39:58Z</Timestamp>
    <Results>
      <Result Status="success" MovementReference="123" Row="1"/>
      <Result Status="success" MovementReference="124" Row="2">
```

```

        <Errors>
            <Error Field="move_date"
Severity="warning"
Message="description of warning here" />
        </Errors>
    </Result>
</Results>
</ns1:SMCreateCattleMovementsResponse>
</SOAP-ENV:Body>

```

## Validations

These are still in development. They will largely follow CTS validations in order to maintain compatibility with legacy systems.

## Recording Deaths

### Overview

This web service is used to record an on farm death or an abattoir death. The carcass information can be recorded by abattoirs. Abattoirs should record the kill number in the UserReference field.

UserRerence - Abattoirs should record the kill number here. Optional for other users. Alongside the EID data it would be useful to get the Transponder ID for each transponder if possible<sup>1</sup>.

The [Beef 2020 report](#) identified key benefits to the industry from recording weight & grade information centrally.

### Example Request

The example request below shows a submission containing an on farm death and an abattoir death. The abattoir death includes the weight/grade/weight of the carcass.

```

<api:SMECreateCattleDeathsRequest>
  <ApplicationName>ScotEID desktop application</ApplicationName>
  <ApplicationVersion>1.0</ApplicationVersion>
  <ApplicationKey><!-- your key here --></ApplicationKey>
  <SchemaVersion>1.7</SchemaVersion>
  <Timestamp>2020-03-01T12:57:11+01:00</Timestamp>
  <CattleDeaths>
    <!--Zero or more repetitions:-->

```

---

<sup>1</sup> Transponder IDentifier. The TID is a read-only number written to the tag's microchip by the chip manufacturer to authenticate the tag.

```

        <CattleDeath Row="1" AnimalID="UK543210123457"
MainCPH="79/435/0157" DateOfDeath="2020-03-01" UserReference="On farm
death">
    <!--Optional: EID tag data-->
        <AnimalEID ISO24631="" Hex="8100CEBC1AE5D40426C61E18"
TID="FFF23432345" Timestamp="2019-09-21T12:51:11+01:00"/>
    </CattleDeath>

    <!-- Example below applicable to abattoirs includes EID and
carcase information -->
        <CattleDeath Row="2" AnimalID="UK543210123456"
MainCPH="79/435/0157" DateOfDeath="2020-03-01" UserReference="Abattoir
death">
            <!--Optional: carcase information from abattoir-->
                <CarcaseClassification Category="B" Grade="R4L "
Deadweight="350" Liveweight=""/>
            <!--Optional: EID tag data-->
                <AnimalEID ISO24631="1 0 04 00 0 826054321023456" Hex=""
TID="" Timestamp="2019-09-21T12:51:11+01:00"/>
            </CattleDeath>
        </CattleDeaths>
    </api:SMECreateCattleDeathsRequest>
</soapenv:Body>

```

## Example Response

```

<SOAP-ENV:Body>
  <ns1:CreateCattleDeathsResponse>
    <Timestamp>2016-12-22T12:39:58Z</Timestamp>
    <Results>
      <Result Status="success" Row="1"/>
      <Result Status="success" Row="2"/>
    </Results>
  </ns1:CreateCattleDeathsResponse>
</SOAP-ENV:Body>

```

## Validations

These are still in development. They will largely follow CTS validations in order to maintain compatibility with legacy systems.

## Animal Details

Will return the details for a registered animal. The animal must have been on the main CPH registered to the user's account.

Movements will be returned as three different structures: CTS movements, ScotEID change of keepership movements & ScotMoves movements. It may be necessary to add additional structures to cope with movements recorded by other administrations as they take over from BCMS.

Only within business (ScotMoves) relating to the user's main CPH will be shown. Within business moves recorded by other businesses will not be shown.

The row element indicates the correct order of ScotMoves movements.

If ReturnCalvings is set to true then the calving history of the animal is also returned. Querying the calving history is slow so it would be best to only request this data when needed.

## Example Request

```
<soapenv:Header/>
<soapenv:Body>
  <api:SMEGetCattleDetailsRequest>
    <ApplicationName>ScotEID desktop application</ApplicationName>
    <ApplicationVersion>1.0</ApplicationVersion>
    <ApplicationKey><!-- your key here --></ApplicationKey>
    <SchemaVersion>1.7</SchemaVersion>
    <Timestamp>2020-03-01T12:57:11+01:00</Timestamp>
    <AnimalID>UK543210123456</AnimalID>
    <ReturnCalvings>true</ReturnCalvings>
  </api:SMEGetCattleDetailsRequest>
</soapenv:Body>
```

## Example Response

```
<ns1:GetCattleDetailsResponse>
  <Timestamp>2020-04-01T09:08:28+01:00</Timestamp>
  <BasicCattleData>
    <AnimalID>UK510000000000</AnimalID>
    <AnimalEID ISO24631="1 0 04 00 0 8260510000000000" Hex=""
TID="ABCDEF0123456789"/>
    <Sex>Female</Sex>
    <DOB>2014-02-26Z</DOB>
    <MainCPH>79/435/0157</MainCPH>
    <LocationCPH>79/435/0157</LocationCPH>
```

```

    <BirthMainCPH>79/435/0157</BirthMainCPH>
    <BirthLocation>79/435/0157</BirthLocation>
    <BreedCode>LIMX</BreedCode>
    <DateOfDeath>2017-03-14Z</DateOfDeath>
    <DamID>UKAA0000000031</GeneticDamID>
    <GeneticDamID>UKAA0000000031</GeneticDamID>
    <SireID>AA1234</SireID>
    <DateOfDeath></DateOfDeath>
    <Status></Status>
    <StatusDesc></StatusDesc>
    <PassportVersion>1</PassportVersion>
    <FAStatus FAStatus="NA" QMSStatus="98"
QMSStatusDescription="Not Scotch Eligible (NSE)" QMSStatusReason="FAStatus"
QMSStatusShortDescription="Over 4 y/o or has calved"/>
    <BVDCategory>1</BVDCategory>
  </BasicCattleData>
  <CTSMoves>
    <CTSMove Row="1"
      AnimalID="UK1234560001234"
      CPH="03/234/2345"
      MoveDate="2016-12-01"
      MovementType="3" />
    <CTSMove Row="2"
      AnimalID="UK1234560001236"
      CPH="65/123/1234"
      MoveDate="2016-12-01"
      MovementType="2" />
  </CTSMoves>
  <KeeperMoves>
    <ScotKeeperMove Row="1"
      AnimalID="UK1234560001234"
      DepartureMainCPH="65/123/1234"
      DestinationMainCPH="88/234/2345"
      MoveDate="2017-12-01"
      UserReference="optional user ref" />
    <ScotKeeperMove Row="2"
      AnimalID="UK1234560001236"
      DepartureMainCPH="88/234/2345"
      DestinationMainCPH="98/234/2345"
      MoveDate="2018-12-01"/>
  </KeeperMoves>
  <ScotMoves>

```

```

<Movement Row="1"
  AnimalID="UK1234560001234"
  DepartureLocation="98/234/2345"
  DestinationLocation="98/234/1234"
  MoveDate="2019-01-01"
  UserReference="1st SM" />
<Movement Row="2"
  AnimalID="UK1234560001236"
  DepartureLocation="98/234/1234"
  DestinationLocation="98/234/9876"
  MoveDate="2019-02-01"/>
<Movement Row="3"
  AnimalID="UK1234560001237"
  DepartureLocation="98/234/9876"
  DestinationLocation="98/234/2345"
  MoveDate="2019-03-01"/>
</ScotMoves>
<Calvings>
  <Calving>
    <CalfID>UK5000000000001</CalfID>
    <Date>2015-11-03Z</Date>
    <CPH>68/137/0001</CPH>
  </Calving>
  <Calving>
    <CalfID>UK5000000000002</CalfID>
    <Date>2016-12-27Z</Date>
    <CPH>68/137/0001</CPH>
  </Calving>
</Calvings>
</ns1:GetCattleDetailsResponse>
</SOAP-ENV:Body>

```

## Holding Details

This request will allow users to check if a Scottish holding has been registered as a main CPH for cattle. Some basic location address details will be returned. If the CPH is invalid an InvalidCPHFault will be thrown.

For English/Welsh holdings we will be unable to determine whether the holding has been registered as a main CPH for cattle.

## Example Request

```
<soapenv:Header/>
<soapenv:Body>
  <api:GetHoldingDetailsRequest>
    <ApplicationName>ScotEID desktop application</ApplicationName>
    <ApplicationVersion>1.0</ApplicationVersion>
    <ApplicationKey><!-- your key here --></ApplicationKey>
    <SchemaVersion>1.7</SchemaVersion>
    <Timestamp>2020-03-01T12:57:11+01:00</Timestamp>
    <CPH>79/435/0157</CPH>
  </api:GetHoldingDetailsRequest>
</soapenv:Body>
```

## Example Response

```
<SOAP-ENV:Body>
  <ns1:CreateUnregisteredCalfDeathsResponse>
    <Timestamp>2016-12-22T12:39:58Z</Timestamp>
    <Country>Scotland</Country>
    <County>Inverness</County>
    <Parish>Kiltarlity</Parish>
    <Address>Kinerras</Address>
    <RegisteredCattleMainCPH>True</RegisteredCattleMainCPH>
    <RegisteredCattleAdditionalHolding>False</RegisteredCattleAdditionalHolding>
    <RegisteredSheepCPH>True</RegisteredSheepCPH>
    <RegisteredPigCPH>False</RegisteredPigCPH>
  </ns1:CreateUnregisteredCalfDeathsResponse>
</SOAP-ENV:Body>
```

## Unregistered Calf death

Data on unregistered calf deaths has been identified as important for driving industry improvements. This information will be anonymised, will not come under cross compliance, and will only be shared for research to benefit the industry.

If a calf dies before registration then the death should be reported using this web service. For calves which die after registration the cattle death web service should be used.

In order to avoid duplication each unregistered dead calf should be given a unique CalfNo within the calving (e.g. triplets would be numbered 1,2,3).

If the calf has been tagged but is still unregistered please record the tag ID. If the calf has not been tagged please enumerate each dead calf to help avoid duplicates.



## Example Request

```
<soapenv:Header/>
<soapenv:Body>
  <api:CreateUnregisteredCalfDeathRequest>
    <ApplicationName>ScotEID desktop application</ApplicationName>
    <ApplicationVersion>1.0</ApplicationVersion>
    <ApplicationKey><!-- your key here --></ApplicationKey>
    <SchemaVersion>1.7</SchemaVersion>
    <Timestamp>2020-03-01T12:57:11+01:00</Timestamp>
    <!--Zero or more repetitions:-->
    <UnregisteredCalfDeaths>
      <!--Zero or more repetitions:-->
      <UnregisteredCalfDeath Row="1" TagID="" CalfNo="1"
MainCPH="79/435/0157" DOB="2020-03-01" DamID="UK500000123456"
GeneticDamID="UK500000123456" DateOfDeath="2020-03-01"
SireID="UK590000123456"/>
      <UnregisteredCalfDeath Row="2" TagID="" CalfNo="2"
MainCPH="79/435/0157" DOB="2020-03-01" DamID="UK500000123456"
GeneticDamID="UK500000123456" DateOfDeath="2020-03-06"
SireID="UK590000123456"/>
      <UnregisteredCalfDeath Row="3" TagID="UK500000054321"
CalfNo="3" MainCPH="79/435/0157" DOB="2020-03-01" DamID="UK500000123456"
GeneticDamID="UK500000123456" DateOfDeath="2020-03-07"
SireID="UK590000123456"/>
    </UnregisteredCalfDeaths>
  </api:CreateUnregisteredCalfDeathRequest>
</soapenv:Body>
```

## Example Response

```
<SOAP-ENV:Body>
  <ns1:CreateUnregisteredCalfDeathsResponse>
    <Timestamp>2016-12-22T12:39:58Z</Timestamp>
    <Results>
      <Result Status="success" Row="1"/>
      <Result Status="success" Row="2"/>
      <Result Status="success" Row="3"/>
    </Results>
  </ns1:CreateUnregisteredCalfDeathsResponse>
</SOAP-ENV:Body>
```

## Tags issued to holding

The tags recorded as issued to the holding will be returned. There may be limits placed on the period over the input date range.

### Example Request

```
<soapenv:Header/>
<soapenv:Body>
  <api:SMEGetIssuedCattleTagsRequest>
    <ApplicationName>test</ApplicationName>
    <ApplicationVersion>1</ApplicationVersion>
    <ApplicationKey></ApplicationKey>
    <SchemaVersion>1.5</SchemaVersion>
    <Timestamp>2015-10-10T12:54:23.1234</Timestamp>
    <MainCPH>79/435/0157</MainCPH>
    <StartDate>2011-04-18</StartDate>
    <StopDate>2015-04-18</StopDate>
  </api:SMEGetIssuedCattleTagsRequest>
</soapenv:Body>
```

### Example Response

```
<SOAP-ENV:Body>
  <ns1:SMEGetIssuedCattleTagsResponse>
    <Timestamp>2020-04-01T10:02:20+01:00</Timestamp>
    <TagGroupings>
      <TagGrouping Status="REPLACEMENT" TagType="P" TagCode="004_1"
EmanIdentifier="4" OrderDate="2012-06-26+01:00" MainCPH="794350157">
        <TagID>UK5000000000001</TagID>
      </TagGrouping>
      <TagGrouping Status="NEW" TagType="B" TagCode="004_B"
EmanIdentifier="4" OrderDate="2013-03-15Z" MainCPH="794350157">
        <TagID>UK5000000000002</TagID>
        <TagID>UK5000000000003</TagID>
      </TagGrouping>
    </TagGroupings>
  </ns1:SMEGetIssuedCattleTagsResponse>
</SOAP-ENV:Body>
```

# Testing

Testing environments are still in development.

A non functioning draft version of the wsdl can be found at.

[https://www.scoteid.com/Public/Documents/sme\\_api\\_v1.0.wsdl](https://www.scoteid.com/Public/Documents/sme_api_v1.0.wsdl)

## Data Dictionary

### Descriptions of data fields

Name	Description	Type	Example(s)
Row	Enumeration of each item within the submission	Integer	1 2
AnimalID	Official ID used for the animal. Spaces are not considered part of the ID and will be removed.	CattleID_Type	UK543210123456
MainCPH	Main CPH for the keeper as registered on CTS and ScotMoves	CPH_Type	79/435/0157
Sex	Sex of the animal	Sex_Type	Male
DOB	Date of birth	Date (ISO 8601)	2019-11-01
AnimalAlias	Alias for the animal	String	"Brutus"
BirthCPH	The holding number the animal was physically born on. In most instance this will be the Main CPH	CPH_Type	79/435/0157
BreedCode			
DamID	Calf's birth dam. If a surrogate was used the surrogate's ID would be recorded here rather than the genetic dam	CattleID_Type	UK543210123456
GeneticDamID	ID of the genetic dam. In most instances this will be the same as the DamID	CattleID_Type	UK543210123456
SireID	Enter either the full ID, or the AI code, or "UNKNOWN"	SireID_Type	AA1234 UK543210123456

			UNKNOWN
DepartureLocation	For within keepership movement this is the physical location the animal was moved from.	CPH_Type	79/435/0157
DestinationLocation	For within keepership movement this is the physical location the animal was moved to.	CPH_Type	79/435/0155
Movedate	The date on which the animal was moved	Date (ISO 8601)	2019-01-01
UserReference	Optional field for recording a user generated reference against a movement	CattleMovementUserReference_Type	Summer grazings
DepartureMainCPH	The main CPH registered with BCMS/ScotMoves for the keeper moving the animal	CPH_Type	79/435/0155
DestinationMainCPH	The main CPH registered with BCMS/ScotMoves for the keeper receiving the animal	CPH_Type	79/435/0155

## Glossary of acronyms

EID	Electronic IDentification. Unique RFID identification stored in the eartag
RFID	Radio Frequency IDentification. A passive transponder which when activated transmits an identification.
CPH	County Parish Holding number. Used to uniquely identify a holding.
TID	Transponder IDentifier. The TID is a read-only number written to the tag's microchip by the chip manufacturer to authenticate the tag.
CTS	Cattle Traceability System.
BCMS	British Cattle Movement Service

# Appendices

## Frequently used CPH numbers

### Cattle Abattoirs

CPH	Business
66/062/8004	Scotbeef (Inverurie)
66/083/8000	Woodhead Bros (Turriff)
68/149/8005	Islay Abattoir
68/166/8000	Mull Slaughterhouse Ltd.
69/176/8002	Heathfield Abattoir (Ayr)
69/216/8000	Highland Meats Ltd
75/319/8005	Lockerbie Abattoir
80/471/8000	McIntosh Donald Ltd (Portlethen)
83/546/8500	Wishaw Abattoir
83/548/8500	Shotts Abattoir
85/586/8500	Miller (Grantown on Spey)
89/705/8500	ABP ( Perth)
89/715/8500	Scotbeef (Bridge of Allan)
89/715/8501	Dunblane abattoir (DS Slaughterhouse Ltd.)
90/725/8004	Sandyford Abattoir
91/740/8500	Dingwall Abattoir (Munro's)
91/755/8500	Stornoway Abattoir
94/875/8011	Shetland Abattoir

### Cattle Marts

CPH	Business
08/067/8019	Borderway Mart
08/181/8000	Longtown Market
66/062/8001	Thainstone Mart (ANM)
66/077/8000	Huntly Mart
67/102/8001	Forfar Mart
68/149/8001	Bridgend Mart
68/168/8001	Tiree Mart
68/171/8001	Dalmally Mart

68/174/8000	Oban Mart
68/174/8001	Moleigh Mart
69/176/8004	Ayr Mart (CW Ltd)
73/282/8600	Quoybrae Mart (ANM)
75/300/8001	Dumfries Mart
75/319/8004	Lockerbie Market
79/455/8600	Fort William Mart (D&HM)
79/457/8600	Lochmaddy Mart (D&HM)
79/461/8600	Portree Mart (D&HM)
79/465/8601	Lochboisdale Mart
82/492/8004	Castle Douglas Mart (Wallets)
83/536/8300	Lanark Mart (L&S)
87/620/8007	Orkney Mart
89/718/8008	Stirling Mart (UA)
91/740/8600	Dingwall Mart(D&HM)
91/755/8600	Stornoway Mart
92/769/8005	Newcastleton Mart
92/796/8003	St Boswells Mart (Swans)
94/875/8001	Shetland Mart
95/808/8301	Stirling Mart (Caledonian Marts)
98/856/8003	Newton Stewart Mart (CW Ltd)

## Cattle Shows

CPH	Show
66/005/8004	Echt Show
66/030/8004	New Deer Show
66/083/8020	Turriff Show
67/115/8000	Kirriemuir Show
68/138/8008	Sunart Agricultural Show
68/149/8000	Islay Show
68/152/8001	Kintyre Show
68/161/8000	Argyll Show
68/165/8000	Bunessan Show
68/166/8001	Salen Show
68/168/8003	Tiree Agricultural Society Show
68/169/8003	Lorn Show
68/170/8000	Appin Showground

68/171/8000	Dalmally Showground
69/176/8012	Ayr Show
69/176/8017	Ayrshire County Rally
69/178/8003	Dundonald Show
69/182/8004	Coylton Show
69/184/8003	Dalrymple Show
69/186/8003	Catrine Cattle Show
69/186/8004	Lawrie Chairman
69/188/8005	New Cumnock Show
69/189/8003	Ochiltree Show
69/201/8004	Beith Show
69/202/8003	Dalry Show
69/205/8003	Parker Sec West Scotland Dairy Show
69/206/8006	Kilmaurs Show
69/209/8010	Stewarton Show
69/213/8003	Straiton Show
69/214/8005	Newmilns Show
70/240/8002	Keith Show
71/254/8003	Berwickshire County Show
72/274/8004	Arran Show Ground
72/277/8001	Bute Show Rothesay
73/286/8009	Latheron Show
74/290/8005	Stirling Show
75/300/8006	Dumfries & Lockerbie Show
75/326/8002	Moffat Show
76/348/8000	Drymen Show
77/360/8002	East Lothian Show
78/381/8000	Fife Show
78/394/8000	Central & West Fife Agricultural Show
79/454/8006	Lochaber Show
79/457/8005	Hosta Showground
79/463/8001	Skyeportree Show
79/465/8005	South Uist Show
80/466/8001	Fettercairn Show
80/482/8000	Banchory Show
82/491/8001	Stewartry Show
83/518/8000	Biggar Show
83/530/8001	Lesmahagow Show
83/532/8006	Carnwath Show

83/538/8008	Strathaven Agric. Exposition
83/544/8005	East Kilbride Show
84/582/8011	Agriscot
84/582/8012	Royal Highland Show
85/586/8000	Granton Show
86/609/8010	Nairn Show
87/620/8010	County Show
87/629/8010	Sanday Agricultural Show
87/630/8010	Shapinsey Show
87/631/8010	South Ronaldsay & Burray Show
88/647/8005	Peebles Show
89/662/8000	Alyth Show
89/671/8000	Strathardle & Blairgowrie Show
89/677/8000	Atholl & bradaldane Agricultural Show
89/705/8000	Perthshire Agr Soc
89/712/8000	Braco Show
89/716/8000	Killin Show
89/717/8001	Doune & Dunblane Show
90/723/8000	Neilston Show
90/729/8003	Houston Show
90/730/8001	Kilbarchan Show
90/733/8001	Largs Show
90/734/8001	Kilmacolm Show
91/755/8000	Point Show
91/762/8001	Black Isle Show
92/785/8001	Border Union Agri. Show
94/870/8010	Voe Show
94/872/8010	Cunningsburgh Show
94/886/8010	Unst Show, Shetland
94/887/8010	Walls & District Agricultural Show
94/891/8010	Yell Show
95/808/8001	Scottish Premier Meat Exhibition
95/822/8000	Gargunnock Show
98/859/8001	Wigtown Show