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# RCM Pricing (WEMS 3.42, RCM 1.22 and WEM PaSS 1.8) Release Notes

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**August 2021**

# Important notice

## PURPOSE

The Australian Energy Market Operator (AEMO) has prepared this document to provide information about the WEMS 3.42 (Build 3.42-1547-1), RCM 1.22 (Build 1.22-3001-11) and WEM PaSS (Build 1.8-804-2) releases as at the date of publication.

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## VERSION CONTROL

Version	Release date	Changes
1.0	18/08/2021	Initial Publication for WEMS 3.42, RCM 1.22 and WEM PaSS 1.8 Market Trial release.

## DOCUMENT APPROVAL

Name	Position	Date
Martin Maticka	Group Manager, WA Markets	V1.0 18/8/21

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# 1. Introduction

## 1.1 Overview

These are the release notes for the WEMS 3.42 (Build 3.42-TBC), RCM 1.22 (Build 1.22-TBC) and WEM PaSS 1.8 (Build 1.8-TBC) release. This is the final release for the RCM Pricing project which is implementing the final amendments to the WEM systems associated with the Wholesale Electricity Market Amendment (Reserve Capacity Pricing Reforms) Rules 2019<sup>1</sup>.

This release includes changes to the RCM, Settlement and Prudential systems which are summarised as follows and described in the sections below:

- Updated Graphical User Interface (GUI) screens for Capacity Credit Allocation (CCA) Submissions (primarily driven by CCAs being associated with a specific Facility).
- New Application Programming Interface (APIs) for accessing Capacity Credit Allocation data.
- Modified settlement calculations (primarily driven by individual Facility Reserve Capacity Prices).
- Updated Individual Reserve Capacity Requirement (IRCR) calculation with changes to the Reserve Requirement (RR).

## 1.2 Supporting documentation

The following documents have been updated for this release and should be read in conjunction with these release notes:

- WEMS MPI User guide<sup>2</sup>
- WEM Metering, Settlement and Prudential Calculations Version 4<sup>2</sup>
- RCM Pricing: Summary of Settlements and Capacity Credit Allocation API Changes – PowerPoint<sup>3</sup>
- IRCR Calculation Spec<sup>4</sup>

## 1.3 Version summary

The changes in versions post deployment of this release are summarised in Table 1.

To view the current application versions, please navigate to **Help > About** in the MPI.

**Table 1** Version summary

Application	Current version	New version
WEMS	3.41 (Build 3.41-1542-4)	3.42 (Build 3.42-TBC)
RCM	1.21 (Build 1.21-2994-6)	1.22 (Build 1.22-TBC)
WEM PaSS	1.7 (Build 1.7-792-15)	1.8 (Build 1.8-TBC)

<sup>1</sup> Available at <https://www.wa.gov.au/sites/default/files/2021-05/Wholesale-Electricity-Market-Amendment-Reserve-Capacity-Pricing-Reforms-Rules-2019---Final%20%281%29.pdf>

<sup>2</sup> Available at <https://aemo.com.au/en/energy-systems/electricity/wholesale-electricity-market-wem/procedures-policies-and-guides/guides>

<sup>3</sup> Please refer to Appendix 1 for further information

<sup>4</sup> Available within WEMS: Settlements > Download Files > pcs > IRCR-CSS\_v1.3

## 1.4 Terms and abbreviations

The terms and abbreviations used in this document are outlined in Table 2.

**Table 2 Terms and abbreviations**

<b>Abbreviation</b>	<b>Expanded name</b>
AEMO	Australian Energy Market Operator
API	Application Programming Interface
CCA	Capacity Credit Allocation
Formulation	WEM Metering, Settlement and Prudential Calculations formulation document
GUI	Graphical User Interface
MPI	Market Participant Interface
PCS	Product Configuration Specification
RC	Reserve Capacity
RCM	Reserve Capacity Mechanism
WEMS	Wholesale Electricity Market System

## 2. RCM Pricing Changes

The changes summarised below are required to support the final release of the RCM Pricing project, which will implement the final amendments associated with the Wholesale Electricity Market Amendment (Reserve Capacity Pricing Reforms) Rules 2019.

### 2.1 CCA GUI Changes

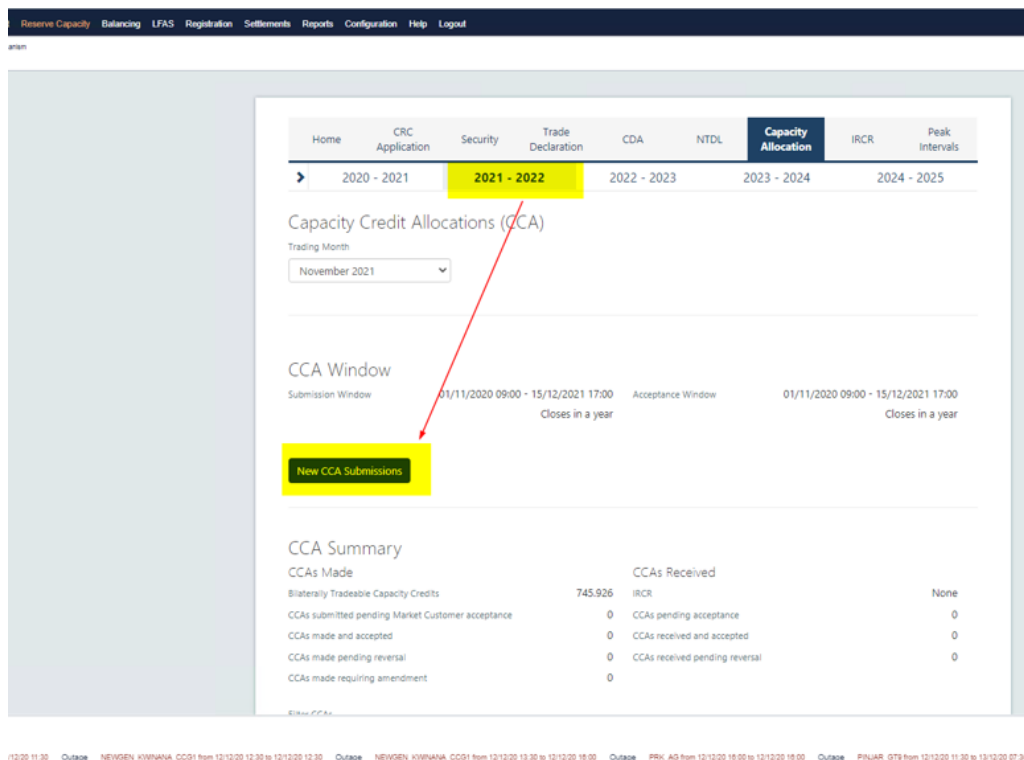
The Capacity Credit Allocation (CCA) page in WEMS has been updated to:

- Require Market Participants to specify the Facility in the CCA Submission; and
- Allow Market Participants to submit CCAs in bulk (but processing sequentially).

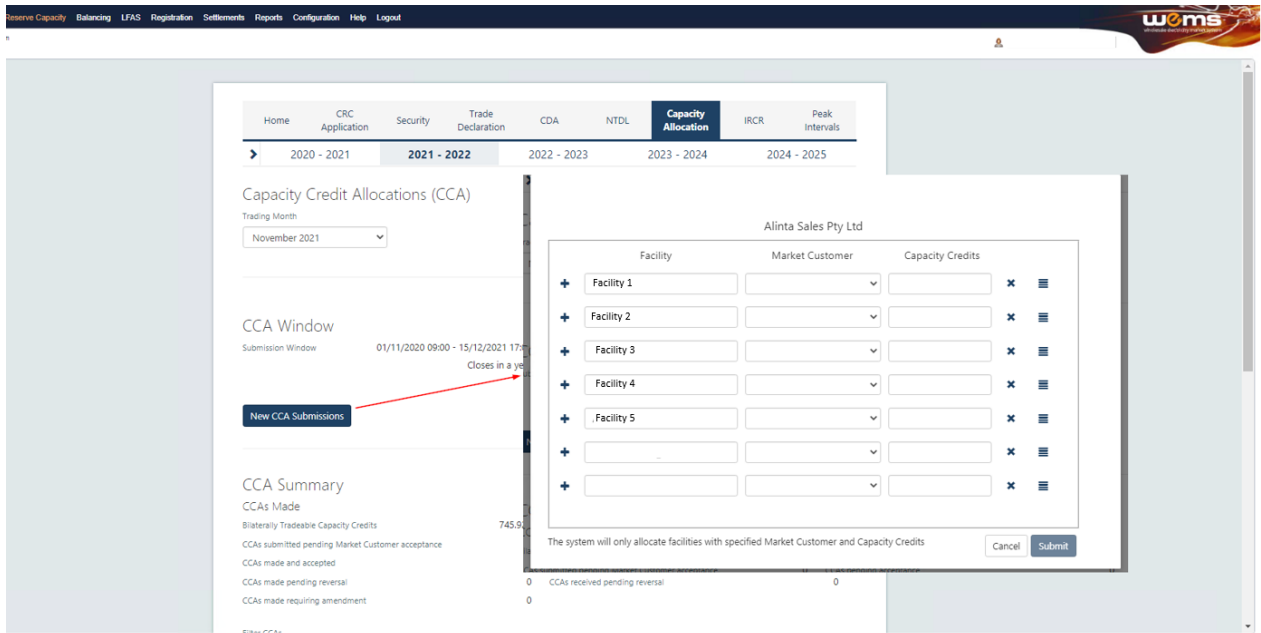
Updates to the interface will be available from 16 September 2021 when the Capacity Credit Allocation Submissions and Acceptance opens for the 2021-2022 Capacity Year.

Changes have been made to the "New CCA Submissions" button located on the lower section of the CCA page as shown in Figure 1 below (accessed through MPI > Reserve Capacity > Reserve Capacity Mechanism > Capacity Allocation). When the updated button is clicked, it will display a new CCA Submissions window as a pop-up for the Market Participant as shown in Figure 2 below.

Figure 1 New CCA Submission button



**Figure 2 New CCA Submissions window**



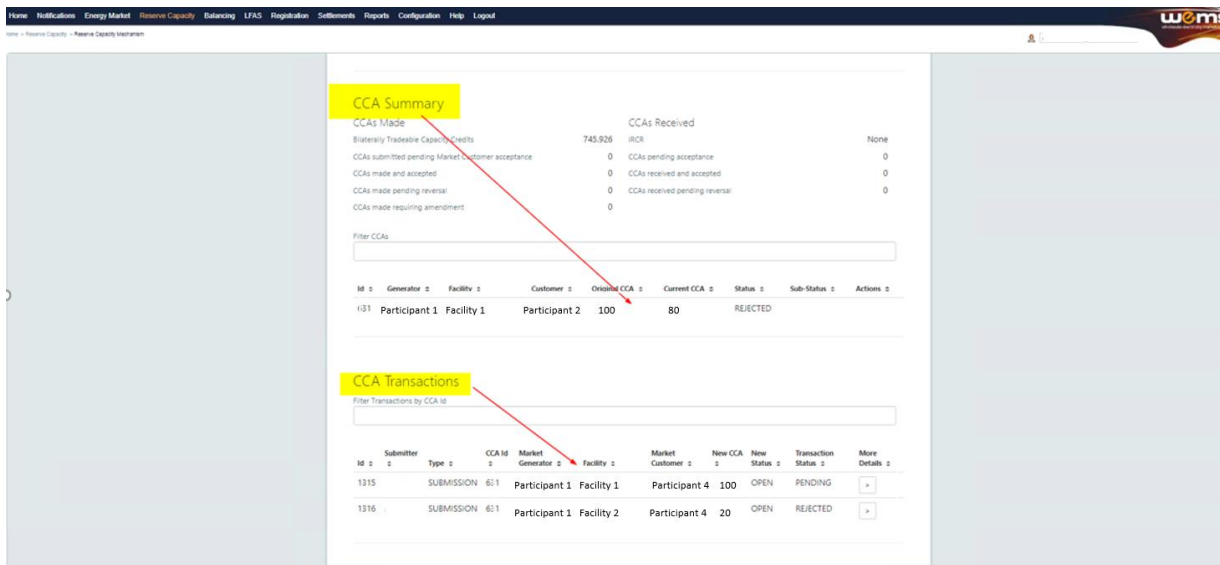
The CCA Submissions window lists all Facilities registered to the Market Participant for all or part of the Trading Month in alphabetical order. Existing CCAs will not be displayed as this functionality only applies to new CCAs.

When making a CCA Submission:

- An amount must be specified for every Facility-Market Customer combination.
- The "Submit" button is disabled when either the Market Customer or Capacity Credits Amount field is empty.
- A Market Participant can duplicate a Facility entry on the CCA Submission window to allow them to allocate from one Facility to a different Market Customer using the "+" icon.
- Every duplicate of a Facility-Market Customer allocation can be removed using the "x" icon.
- The CCA Submissions window has a single "Submit" button which submits all CCA Submissions in order (where the top submission is submitted first).

The list of CCA submissions and their status can be found within the CCA page under the CCA Summary and CCA Transactions (accessed through MPI > Reserve Capacity > Reserve Capacity Mechanism > Capacity Allocation). These screens now provide the Facility from which the CCA Submission has been made as shown below in Figure 3.

Figure 3 Updated CCA Summary and CCA Transaction lists



## 2.2 CCA API

Six APIs have been updated for CCAs:

- Two new versions.
- Four updated existing versions.

The APIs will be available to use in WEMS from 16 September 2021 when the window for Capacity Credit Allocation Submissions and Acceptances opens for Trading Month October 2021, as per the Settlement Cycle Timeline<sup>5</sup>.

For detailed information relating to the API changes please refer to the Summary of Settlements and Capacity Credit Allocation API Changes in Appendix 1 of this document.

## 2.3 Settlements and IRCR Calculation

- The Wholesale Electricity Market Amendment (Reserve Capacity Pricing Reforms) Rules 2019 have introduced changes to the settlement calculations for the Reserve Capacity Mechanism including the Individual Reserve Capacity Requirement (IRCR), Capacity Payments, Capacity Credit Over-Allocation Payments, Dispatch Instruction Payments, TRCC and SRCC Charges and the Maximum Facility Refund for a Facility. For the IRCR, the Reserve Requirement calculation has been updated for Trading Months October 2021 onwards in the IRCR calculation specification<sup>6</sup>.
- For the settlement changes, the changes have been as documented in detail in the WEM Metering, Settlement and Prudential Calculations Version 4<sup>7</sup>. The following sections have been changed to align with the updated WEM Rules: 2.3, 2.4.1, 2.4.2, 4.1.3, 4.1.8, 4.5, 4.5.3, 4.6, 4.6.2, 4.9, 4.9.1, 4.9.2, 4.9.4, 4.9.4.1, 4.9.5, 4.9.6.6, 4.9.6.7, 4.12.3, 5.2.4.

AEMO encourages Market Participants to familiarise themselves with the detailed changes in the Wholesale Electricity Market Amendment (Reserve Capacity Pricing Reforms) Rules 2019 and AEMO's specifications.

The calculations will be updated for Trading Months October 2021 onwards.

<sup>5</sup> Available at <https://aemo.com.au/energy-systems/electricity/wholesale-electricity-market-wem/market-operations/clearing-payments>

<sup>6</sup> Available within WEMS: Settlements > Download Files > pcs > IRCR-CSS\_v1.3

<sup>7</sup> Available at <https://aemo.com.au/en/energy-systems/electricity/wholesale-electricity-market-wem/procedures-policies-and-guides/guides> published on 08 July 2021.



### 3. Market Trial

AEMO has scheduled a Market Trial period from 25 August to 8 September 2021. In Market Trial the CCA Submissions and Acceptances window will open earlier on Wednesday 25 August 2021 to allow for Market Participant testing, as outlined in paragraph 3.

AEMO has also planned the following activities to allow for thorough and detailed testing by Market Participants.

Date	Party	Actions
Wed 25/08/2021	AEMO	<ul style="list-style-type: none"><li>• Refresh Market Trial data from Production</li><li>• Deploy new systems to Market Trial</li><li>• Open CCA Submissions and Acceptances window for Trading Month October 2021 in Market Trial</li></ul>

AEMO encourages Market Participants to:

- Familiarise themselves with the IRCR calculation specification<sup>8</sup> and Formulation document<sup>9</sup>;
- Undertake testing of CCA Submissions and CCA Acceptances with relevant counterparties (through both the GUI and webservice).
- Advise AEMO of any concerns as early as possible by email to [wa.operations@aemo.com.au](mailto:wa.operations@aemo.com.au).

<sup>8</sup> Available within WEMS: Settlements > Download Files > pcs > IRCR-CSS\_v1.3

<sup>9</sup> Available at <https://aemo.com.au/en/energy-systems/electricity/wholesale-electricity-market-wem/procedures-policies-and-guides/guides>

# Appendix 1 - Summary of Settlements and Capacity Credit Allocation API Changes

# RCM Pricing

## Summary of Settlements and Capacity Credit Allocation API Changes

WA Market Operations

# Overview

- Background of API Changes
- For each New Version API (x2):
  - Summary: Business Context and Changes
  - Model
  - Example
- For each Updated API (x4):
  - Summary: Business Context and Changes
  - Model
  - Example

# Background

- AEMO would like to advise Market Participants of the following planned updates to the Reserve Capacity Mechanism (RCM) Application Programming Interfaces (API) in the WEMS. These updates are required as part of the changes arising from the RCM Pricing rule amendments introduced by the Minister for Energy ([Wholesale Electricity Market Amendment \(Reserve Capacity Pricing Reforms\) Rules 2019](#)).
- The API changes summarised here are required to accommodate the settlements and Capacity Credit Allocation changes introduced in the rule amendments.
- As required by the amending rules, these changes will come into effect for Trading Months October 2021 onwards. The APIs will be available to use in WEMS production environment by 16 September 2021 when the window for Capacity Credit Allocation Submissions and Acceptances opens for Trading Month October 2021, as per the [Settlement Cycle Timeline](#).
- AEMO is providing information on the API changes in advance of the Market Trial release to allow Market Participants time to make any necessary software changes. AEMO is currently developing release notes and updating [Swagger Documentation](#) which will reflect the changes in the attached summary.

**New Version API:** The following 2 APIs are new versions:

- (1) [GET /api/v2/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}/Position](#)
- (2) [POST/api/v2/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}/Submitted](#)

**Updated API:** The following 4 APIs have been updated:

- (1) [GET /api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}](#)
- (2) [PUT /api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}/{ccald}](#)
- (3) [GET/api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/Amendments/{tradingMonth}](#)
- (4) [GET/api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/Transactions/{tradingMonth}](#)

# New Version API (1)

## Summary

- [GET /api/v2/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}/Position](#)

### Business Context:

- This new API version provides a Participant's bilaterally tradeable Capacity Credits (allocatableCapacityCredits) and a break down by Facility. For a Market Customer it also provides a Participant's Individual Reserve Capacity Requirements (IRCR).
- Note: This method is only applicable for Trading Month October 2021 onwards arising from the [Wholesale Electricity Market Amendment \(Reserve Capacity Pricing Reforms\) Rules 2019](#).

### API Changes from previous version:

- Removed Fields "allocationsSubmittedOn" and "allocationsAcceptedOn" (as these are not relevant to bilaterally tradeable Capacity Credits)
- Added: Returns list of bilaterally tradeable Capacity Credits per Facility for the relevant Participant.
- For calls for Trading Months before October 2021 this API will return forbidden.

# New Version API (1) Model

- [GET /api/v2/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}/Position](#)

```
OkResponse[CapacityAllocationWithFacilityViewModel] {  
  data (CapacityAllocationWithFacilityViewModel, optional)
```

```
}
```

```
CapacityAllocationWithFacilityViewModel {
```

```
  capacityYearId (integer): The capacity year of the allocations, (e.g. 2021)
```

```
  tradingMonth (string): The trading month for which the allocations are valid ie:
```

```
OCT|NOV|DEC|JAN|FEB|MAR|APR|MAY|JUN|JUL|AUG|SEP,
```

```
  participantId (string): The participant for which the allocations are valid,
```

```
  ircr (number, optional): The Individual Reserve Capacity Requirement for the trading month,
```

```
  allocatableCapacityCredits (number): The sum of capacity credits for all facilities averaged over the trading month,
```

```
  facilityAllocatableCapacityCredits (Array[FacilityCapacityAllocationViewModel], optional)
```

```
}
```

```
FacilityCapacityAllocationViewModel {
```

```
  sourceFacilityId (string): The facility for which the allocations are valid,
```

```
  allocatableCapacityCredits (number, optional): Facility bilaterally tradeable Capacity Credits for the trading month
```

```
}
```

# New Version API (1)

## Example

- [GET /api/v2/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}/Position](#)

```
{
  "data": {
    "capacityYearId": 0,
    "tradingMonth": "string",
    "participantId": "string",
    "ircr": 0,
    "allocatableCapacityCredits": 0,
    "facilityAllocatableCapacityCredits": [
      {
        "sourceFacilityId": "string",
        "allocatableCapacityCredits": 0
      }
    ]
  }
}
```

### Parameters:

Parameter	Value	Description	Parameter Type	Data Type
capacityYearId	(required)	The capacity year id (e.g. 2021)	path	integer
tradingMonth	(required)	The tradingmonth for the allocation (format:"MMM"eg:'OCT', 'AUG')	path	string
participantId		This is automatically populated from the authenticated certificate	query	string

### Response Messages:

HTTP Status Code	Reason	Response Model	Headers
403	Forbidden		
404	Not Found		



# New Version API (2)

## Summary

- [POST/api/v2/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}/Submitted](#)

### Business Context:

- This API allows a Market Participant to submit a list of Capacity Credit Allocation Submissions for Capacity Years 2021 onward, provided the Capacity Credit Allocation window for the Trading Month is currently open.
- Note: This API is only available for Capacity Credit Allocations for Trading Month October 2021 onwards arising from the [Wholesale Electricity Market Amendment \(Reserve Capacity Pricing Reforms\) Rules 2019](#).

### API Changes from previous version:

- Submission field now includes “sourceFacilityId”. Submissions are now a list, allowing multiple Capacity Credit Allocations Submissions to be made in one API call.
- Response now includes, “id”, “sourceFacilityId” and “substatus”.
- Response now returns a list of Capacity Credits Allocations by Facility.
- For Trading Months before October 2021 this API will return forbidden.

# New Version API (2) Model

- <POST/api/v2/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}/Submitted>

```
OkResponse[List[CapacityAllocationViewModelV2]] {  
  data (Array[CapacityAllocationViewModelV2], optional)  
}  
CapacityAllocationViewModelV2 {  
  id (integer): The ID of the capacity allocation,  
  capacityYearId (integer): The capacity year of this allocation (e.g. 2021),  
  capacityCreditsOffered (number): Amount of capacity credits that are offered by the market Participant,  
  capacityCreditsAccepted (number, optional): Amount of capacity credits allocation to the market customer,  
  targetParticipantId (string): ID of the market customer receiving the allocation,  
  targetParticipantName (string): The full name of the market customer,  
  sourceParticipantId (string): ID of the market Participant making the allocation,  
  sourceParticipantName (string): The full name of the market Participant making the allocation,  
  sourceFacilityId (string, optional): ID of the source Facility,  
  status (string): The status of the allocation (i.e. PENDING, SUBMITTED, WITHDRAWN, ACCEPTED, REVERSED, REJECTED),  
  subStatus (string): The sub-status of the allocation (i.e. SUBMISSION_PENDING, ACCEPTANCE_PENDING,  
  WITHDRAWAL_PENDING, REVERSAL_REQUEST_PENDING, REVERSAL_REQUESTED,  
  REVERSAL_REQUEST_CANCELLATION_PENDING, REVERSAL_REQUEST_ACCEPTANCE_PENDING),  
  tradingMonth (string): The trading month for which the allocation is valid  
  (i.e.OCT|NOV|DEC|JAN|FEB|MAR|APR|MAY|JUN|JUL|AUG|SEP)  
}
```

# New Version API (2)

## Example

- [POST/api/v2/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}/Submitted](#)

```
{
  "data": [
    {
      "id": 0,
      "capacityYearId": 0,
      "capacityCreditsOffered": 0,
      "capacityCreditsAccepted": 0,
      "targetParticipantId": "string",
      "targetParticipantName": "string",
      "sourceParticipantId": "string",
      "sourceParticipantName": "string",
      "sourceFacilityId": "string",
      "status": "string",
      "subStatus": "string",
      "tradingMonth": "string"
    }
  ]
}
```

### Response Messages:

HTTP Status Code	Reason	Response Model	Headers
400	Bad Request		
403	Forbidden		
422	Client Error		

# New Version API (2)

## Example

- [POST/api/v2/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}/Submitted](#)

### Parameters:

Parameter	Value	Description	Parameter Type	Data Type
participantId		This is automatically populated from the authenticated certificate	query	string
capacityYearId	(required)	The capacity year id (e.g. 2021)	path	integer
tradingMonth	(required)	The tradingmonth for the allocation	path	string
allocationOffersViewMode 1	Parameter content type: application/json	JSON object containing the updated amount of capacity to trade	body	<b>Model Example Value</b> <pre>{   "facilityBasedCapacityAllocationOfferViewModels"   [     {       "sourceFacilityId": "string"       "targetParticipantId": "string"       "capacityCreditsOffered": 0     }   ] }</pre> <b>Model Example Value</b> <pre>FacilityBasedCapacityAllocationOffersViewModel {   facilityBasedCapacityAllocationOfferViewModels (Array[FacilityBasedCapacityAllocationOfferViewModel], optional) } FacilityBasedCapacityAllocationOfferViewModel {   sourceFacilityId (string, optional):   ID of the source Facility,   targetParticipantId (string):   ID of the market customer receiving the allocation,   capacityCreditsOffered (number):   Amount of capacity credits that are offered by the market generator }</pre>

# Updated Version API (1)

## Summary

- [GET /api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}](#)

### Business Context:

- This API returns a list of all Capacity Credit Allocations made or received by a Participant for the specified Capacity Year and Trading Month.
- Note: This method is only available from Trading Month June 2019 (with the implementation of Rule Change RC\_2017\_06).
- The sourceFacilityId field is only applicable for Capacity Allocations for Trading Month October 2021 onwards arising from the [Wholesale Electricity Market Amendment \(Reserve Capacity Pricing Reforms\) Rules 2019](#).

### API Changes to existing version:

- The response now has the following additional fields: CCA Id, sourceFacilityId and a sub status field.
- For calls for TradingMonth before October 2021 the “subStatus” field will return values if available else it will return "". The response field “sourceFacilityId” will return "" for TradingMonth before October 2021.

# Updated Version API (1) Model

- GET /api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}

```
OkResponse[List[CapacityAllocationViewModel]] {  
  Data (Array[CapacityAllocationViewModel], optional)  
}  
  
CapacityAllocationViewModel {  
  Id (integer): The ID of the capacity allocation,  
  capacityYearId (integer): The capacity year of this allocation (e.g. 2017),  
  capacityCreditsOffered (number): Amount of capacity credits that are offered by the market Participant,  
  capacityCreditsAccepted (number, optional): Amount of capacity credits allocation to the market customer,  
  targetParticipantId (string): ID of the market customer receiving the allocation,  
  targetParticipantName (string): The full name of the market customer,  
  sourceParticipantId (string): ID of the market Participant making the allocation,  
  sourceParticipantName (string): The full name of the market Participant making the allocation,  
  sourceFacilityId (string, optional): ID of the source Facility,  
  status (string): The status of the allocation (i.e. PENDING, SUBMITTED, PROPOSED, AUTO_ACCEPTED, ACCEPTED, LAPSED, REVOKED),  
  subStatus (string): The sub-status of the allocation (i.e. SUBMISSION_PENDING, ACCEPTANCE_PENDING, WITHDRAWAL_PENDING,  
  REVERSAL_REQUEST_PENDING, REVERSAL_REQUESTED, REVERSAL_REQUEST_CANCELLATION_PENDING, REVERSAL_REQUEST_ACCEPTANCE_PENDING),  
  tradingMonth (string): The trading month for which the allocation is valid ie:OCT|NOV|DEC|JAN|FEB|MAR|APR|MAY|JUN|JUL|AUG|SEP  
}
```

# Updated Version API (1)

## Example

- **GET**  
`/api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}`

```
{
  "data": [
    {
      "id": 0,
      "capacityYearId": 0,
      "capacityCreditsOffered": 0,
      "capacityCreditsAccepted": 0,
      "targetParticipantId": "string",
      "targetParticipantName": "string",
      "sourceParticipantId": "string",
      "sourceParticipantName": "string",
      "sourceFacilityId": "string",
      "status": "string",
      "subStatus": "string",
      "tradingMonth": "string"
    }
  ]
}
```

### Parameters:

Parameter	Value	Description	Parameter Type	Data Type
capacityYearId	(required)	The capacity year id (e.g. 2021)	path	integer
tradingMonth	(required)	The tradingmonth for the allocation (format:"MMM"eg:'OCT', 'AUG')	path	string
participantId		This is automatically populated from the authenticated certificate	query	string

### Response Messages:

HTTP Status Code	Reason	Response Model	Headers
403	Forbidden		

# Updated Version API (2)

## Summary

- [PUT /api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}/{ccald}](#)

### Business Context:

- Market Participants that submit Capacity Credit Allocation Submissions may perform a Withdrawal, Reversal Request or Cancel Reversal Request on relevant Capacity Credit Allocations. A Market Customer may perform submit a Capacity Credit Allocation Acceptance or Accept Reversal Request on relevant Capacity Credit Allocations.
- Note: This method is only available from Trading Month June 2019 (with the implementation of Rule Change RC\_2017\_06).
- The sourceFacilityId field is only available for Capacity Allocations for Trading Month October 2021 onwards arising from the Wholesale Electricity Market Amendment (Reserve Capacity Pricing Reforms) Rules 2019.

### API Changes to existing version:

- Response includes the “sourceFacilityId” for the Capacity Credit Allocation to which the action is being performed.
- The response field “sourceFacilityId” will return "" for TradingMonth before October 2021.



# Updated Version API (2) Model

- PUT /api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}/{ccald}

```
OkResponse[CapacityAllocationViewModelV2] {  
    data (CapacityAllocationViewModelV2, optional)  
}
```

```
CapacityAllocationViewModelV2 {  
id (integer): The ID of the capacity allocation,  
capacityYearId (integer): The capacity year of this allocation (e.g. 2017),  
capacityCreditsOffered (number): Amount of capacity credits that are offered by the market Participant,  
capacityCreditsAccepted (number, optional): Amount of capacity credits allocation to the market customer,  
targetParticipantId (string): ID of the market customer receiving the allocation, targetParticipantName (string): The full name of the market customer,  
sourceParticipantId (string): ID of the market Participant making the allocation,  
sourceParticipantName (string): The full name of the market Participant making the allocation,  
sourceFacilityId (string, optional): ID of the source Facility,  
status (string): The status of the allocation (i.e. PENDING, SUBMITTED, WITHDRAWN, ACCEPTED, REVERSED, REJECTED),  
subStatus (string): The sub-status of the allocation (i.e. SUBMISSION_PENDING, ACCEPTANCE_PENDING, WITHDRAWAL_PENDING,  
REVERSAL_REQUEST_PENDING, REVERSAL_REQUESTED, REVERSAL_REQUEST_CANCELLATION_PENDING, REVERSAL_REQUEST_ACCEPTANCE_PENDING),  
tradingMonth (string): The trading month for which the allocation is valid (i.e. OCT | NOV | DEC | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP)
```

```
}
```

# Updated Version API (2)

## Example

- PUT `/api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/{tradingMonth}/{ccaId}`

```
{
  "data": {
    "id": 0,
    "capacityYearId": 0,
    "capacityCreditsOffered": 0,
    "capacityCreditsAccepted": 0,
    "targetParticipantId": "string",
    "targetParticipantName": "string",
    "sourceParticipantId": "string",
    "sourceParticipantName": "string",
    "sourceFacilityId": "string",
    "status": "string",
    "subStatus": "string",
    "tradingMonth": "string"
  }
}
```

### Parameters:

Parameter	Value	Description	Parameter Type	Data Type
capacityYearId	(required)	The capacity year id (e.g. 2021)	path	integer
tradingMonth	(required)	The tradingmonth for the allocation (format: "MMM"eg: 'OCT', 'AUG')	path	string
ccaId	(required)	The ID of the capacity allocation being processed	path	integer
actionRequest	Parameter content type: application/json	The action type	Body	Model Example Value <pre>{   "actionType": "string" }</pre> Model Example Value <pre>AllocationActionRequestViewModel {   actionType (string):     The action to perform on the allocation (WITHDRAW, ACCEPT, REVERSAL_REQUEST, CANCEL_REVERSAL_REQUEST, ACCEPT_REVERSAL_REQUEST) }</pre>

### Response Messages:

HTTP Status Code	Reason	Response Model	Headers
400	Bad Request		
403	Forbidden		
404	Not Found		

# Updated Version API (3)

## Summary

- [GET/api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/Amendments/{tradingMonth}](#)

### Business Context:

- If Capacity Credits that were allocated to a Market Customer through a Capacity Credit Allocation, are subsequently terminated, it may require the relevant Capacity Credit Allocations to be amended. This API provides a list of Capacity Credit Allocations that are required to be amended.
- Previously, this API had incorrect documentation stating it returned a single item rather than returning a list of Capacity Credit Allocations. The documentation has now been corrected in this release.
- A list of CCA Ids is now returned that are associated with each Capacity Credit Allocation amendment request.

### API Changes to existing version:

- Response now includes a list of Capacity Credit Allocations amendment requests. For each, the response now includes the “sourceFacilityId” associated with the amendment request.
- A list of CCA IDs is now provided that are associated with each Capacity Credit Allocation which requires amendment.
- The response field “sourceFacilityId” will return "" for TradingMonth before October 2021.

# Updated Version API (3) Model

- `GET/api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/Amendments/{tradingMonth}`

```
OkResponse[List[CapacityAllocationAmendmentRequestViewModel]] {  
  data (Array[CapacityAllocationAmendmentRequestViewModel] optional)  
}  
CapacityAllocationAmendmentRequestViewModel {  
  id (integer, optional): ID of this capacity allocation amendment request,  
  capacityYearId (integer, optional): The capacity year of this capacity allocation amendment request (e.g. 2021),  
  tradingMonth (string, optional): The trading month for the allocation amendment request  
(i.e.OCT|NOV|DEC|JAN|FEB|MAR|APR|MAY|JUN|JUL|AUG|SEP),  
  participantId (string, optional): The Market Participant owning the amendment request,  
  participantName (string, optional): The full name of the market Participant,  
  sourceFacilityId (string, optional): The Market Participant's Facility owning the amendment request,  
  targetCca (number, optional): The total target capacity allocation amount,  
  amendmentDue (string, optional): The date the amendment should be resolved by.Format: yyyy-MM-ddTHH:mm:sszzz. (e.g. 2021-01-  
07T15:30:00+08:00),  
  status (string, optional): The status of the capacity allocation amendment request (i.e. AMENDMENT_REQUESTED | COMPLETED),  
  capacityAllocationAmendmentRequestFacilityViewModels  
(Array[CapacityAllocationAmendmentRequestFacilityViewModel], optional)  
}  
CapacityAllocationAmendmentRequestFacilityViewModel {  
  ccaId (integer): Id of the CC Allocation as known by RCM.  
}
```

# Updated Version API (3)

## Example

- `GET/api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/Amendments/{tradingMonth}`

```
{
  "data": [
    {
      "id": 0,
      "capacityYearId": 0,
      "tradingMonth": "string",
      "participantId": "string",
      "participantName": "string",
      "sourceFacilityId": "string",
      "targetCca": 0,
      "amendmentDue": "2021-07-29T03:57:24.878Z",
      "status": "string",
      "capacityAllocationAmendmentRequestFacilityViewModels":
      [ {
        "ccald": 0
      } ]
    }
  ]
}
```

### Parameters:

Parameter	Value	Description	Parameter Type	Data Type
capacityYearId	(required)	The capacity year id (e.g. 2021)	path	integer
tradingMonth	(required)	The tradingmonth for the allocation (format: "MMM"eg: 'OCT', 'AUG')	path	string

### Response Messages:

HTTP Status Code	Reason	Response Model	Headers
400	Bad Request		
403	Forbidden		
404	Not Found		

# Updated Version API (4)

## Summary

- [GET/api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/Transactions/{tradingMonth}](#)

### Business Context:

- Provides a list of transactions related to Capacity Credit Allocations submitted or received for a Trading Month and the corresponding Facilities associated with those Capacity Credit Allocations.
- Previously, this API had incorrect documentation stating it returned a single item rather than returning a list of Capacity Credit Allocations. The documentation has now been corrected in this release.

### API Changes to existing version:

- Response is now a list of Capacity Credit Allocation transaction. For each transaction, the response now includes the “sourceFacilityId” associated with the relevant Capacity Credit Allocation.
- The response field “sourceFacilityId” will return "" for TradingMonth before October 2021.

# Updated Version API (4) Model

- `GET/api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/Transactions/{tradingMonth}`

```
OkResponse[List[CapacityAllocationTransactionMpViewModel]] {  
  data(Array[CapacityAllocationTransactionMpViewModel],optional)  
}  
CapacityAllocationTransactionMpViewModel {  
  id (integer, optional): The id of this capacity allocation transaction,  
  capacityAllocationId (integer, optional): The capacity allocation id to which the capacity allocation transaction belongs,  
  capacityYearId (integer, optional): The capacity year of this capacity allocation transaction,  
  submitter (string, optional): The participant who created this capacity allocation transaction,  
  submitterName (string, optional): The full name of the submitter,  
  type (string, optional): The type of this capacity allocation transaction (SUBMISSION, WITHDRAWAL, ACCEPTANCE, REQUEST_REVERSAL, CANCEL_REVERSAL_REQUEST, ACCEPT_REVERSA,  
  previousStatus (string, optional): The previous capacity allocation status of the capacity allocation transaction(i.e. PENDING,SUBMITTED, WITHDRAWN, ACCEPTED, REVERSED, REJECTED),  
  newStatus (string, optional): The new capacity allocation status of the capacity allocation transaction(i.e. PENDING,SUBMITTED, WITHDRAWN, ACCEPTED, REVERSED, REJECTED),  
  participantId (string, optional): The Market Participant submitting the capacity allocation,  
  participantName (string): The full name of the market Participant submitting the Capacity Credit Allocation,  
  sourceFacilityId (string, optional): The Market Participant's facility submitting the capacity allocation,  
  targetParticipantId (string, optional): The Market Customer receiving the capacity allocation,  
  targetParticipantName (string): The full name of the market customer,  
  previousCca (number, optional): Amount of capacity credits that was previously offered by the market Participant,  
  newCca (number, optional): Amount of capacity credits that is currently offered by the market Participant,  
  timestamp (string, optional): The Timestamp of the capacity allocation transaction last update.Format: yyyy-MM-ddTHH:mm:sszz. (e.g. 2021-01-07T15:30:00+08:00),  
  transactionStatus (string, optional): The status of the capacity allocation transaction (PENDING,APPROVED,REJECTED),  
  transactionReason (string, optional): The reason for the capacity allocation transaction  
}
```

# Updated Version API (4)

## Example

- `GET/api/v1/CapacityYears/{capacityYearId}/CapacityAllocations/Transactions/{tradingMonth}`

```
{
  "data": [ {
    "id": 0,
    "capacityAllocationId": 0,
    "capacityYearId": 0,
    "submitter": "string",
    "submitterName": "string",
    "type": "string",
    "previousStatus": "string",
    "newStatus": "string",
    "participantId": "string",
    "participantName": "string",
    "sourceFacilityId": "string",
    "targetParticipantId": "string",
    "targetParticipantName": "string",
    "previousCca": 0,
    "newCca": 0,
    "timestamp": "2021-07-29T03:57:24.889Z",
    "transactionStatus": "string",
    "transactionReason": "string"
  } ]
}
```

### Parameters:

Parameter	Value	Description	Parameter Type	Data Type
capacityYearId	(required)	The capacity year id (e.g. 2021)	path	integer
tradingMonth	(required)	The tradingmonth for the allocation (format: "MMM" eg: 'OCT', 'AUG')	path	string

### Response Messages:

HTTP Status Code	Reason	Response Model	Headers
400	Bad Request		



# Questions and Feedback

Market Operations

[wa.operations@aemo.com.au](mailto:wa.operations@aemo.com.au)

1300 989 797