

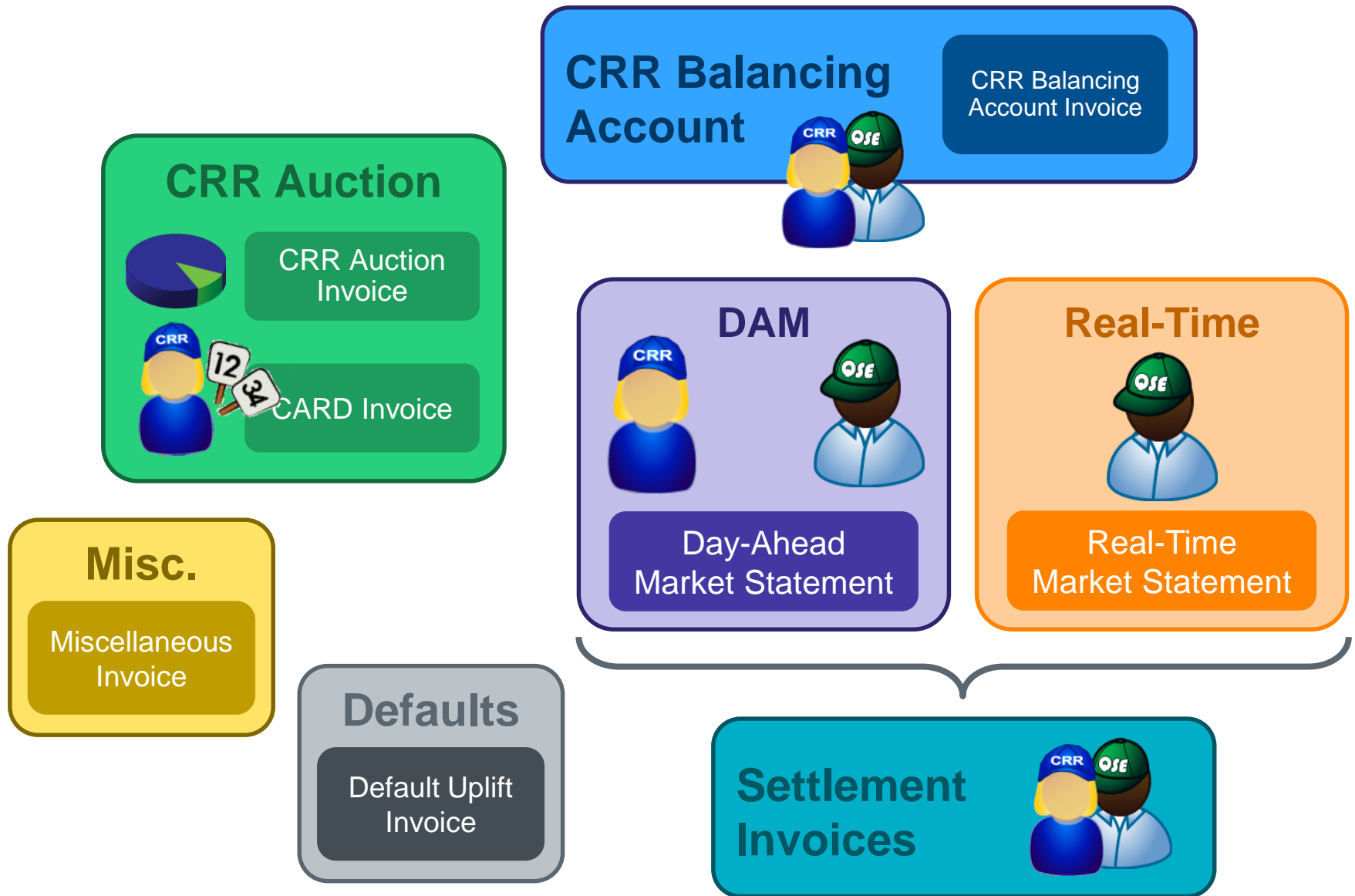


ERCOT Market Education

## Settlements 301

Module 7: Statements & Invoices





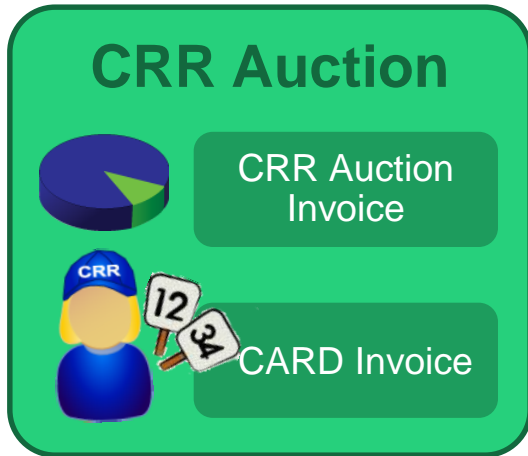
## CRR Auction



**CRR Auction  
Invoice**



**CARD Invoice**



## CRR Invoices

Invoice	Receiving Entity	Timeframe	Contents
CRR Auction	CRRAH	Per Auction	<ul style="list-style-type: none"><li>Awarded CRRs</li><li>Awarded PCRRs</li></ul>
CARD	QSE representing Load	Monthly	<ul style="list-style-type: none"><li>Distribution of net Auction Revenues</li></ul>

**CRR AUCTION INVOICE**Auction: MONTHLY-  
SEPTEMBER, 2016Invoice No: **CRR8195**  
Invoice Date: **08/19/2016**Payments are due to ERCOT by 5:00 P.M. (CPT) on: **08/24/2016**  
Payments will be made to Invoice Recipients by 5:00 P.M. (CPT) on: **08/25/2016****AMOUNT OWED (DUE):** **\$1,711,942.77****INVOICE RECIPIENT**Name: **EXAMPLE CUSTOMER NAME (CRRH)**  
ID: **123456789**

CRR ID	HEDGE TYPE	PCRR TYPE	BUY/SELL	AMOUNT	CLEARING PRICE	AWARD FEE
40736912	OBLPAMT		B	\$23.18		
40736913	OPTPAMT		B	\$55.91	\$0.02	\$0.00
40736914	OPTPAMT		B	\$135.12	\$0.02	\$0.00
40736915	OBLPAMT		B	\$11,701.77		
40736916	OPTPAMT		B	\$6,186.16	\$0.68	\$0.00
40736977	OBLPAMT		B	\$880.46		
TOTAL				\$1,711,942.77		\$0.00

**REMITTANCE INFORMATION**

	<b>ERCOT Account</b>	<b>Recipient Account</b>
<b>Account Name</b>	EXAMPLE ERCOT ACCOUNT NAME	EXAMPLE CRRH ACCOUNT NAME
<b>Bank Name</b>	EXAMPLE ERCOT BANK NAME	EXAMPLE CRRH BANK NAME
<b>ABA Routing Number</b>	111111111	222222222
<b>Account Number</b>	333333333	444444444

**Overdue Terms**

In the event ERCOT does not receive your payment by close of business on the "Payments are due to ERCOT" date, CRR Bids awarded and/or PCRRs allocated shall be forfeited by the Invoice Participant.



## CRR Auction Invoice Timeline



\* Business Day

\*\* Business Day & Bank Business Day



## CRR AUCTION REVENUE DISTRIBUTION (CARD INVOICE)

Time Period: JUL 2016

Invoice No: CRD14478

Invoice Date: 08/08/2016

Payments are due to ERCOT by 5:00 P.M. (CPT) on: 08/15/2016

Payments will be made to Invoice Recipients by 5:00 P.M. (CPT) on: 08/16/2016

**AMOUNT OWED (DUE): (\$89,241.48)**

### INVOICE RECIPIENT

Name: **EXAMPLE SERVICE CORP (QSE)**

ID: **123456789**

DESCRIPTION	CATEGORY	MONTHLY TOTALS	BILLABLE AMOUNT
<b>LACMRNZBILLAMT</b> - Load-Allocated CRR			
Monthly Revenue Non-Zonal Bill Amount	INITIAL	(\$60,738.10)	(\$60,738.10)
<b>LACMRZBILLAMT</b> - Load-Allocated CRR			
Monthly Revenue Zonal Bill Amount	INITIAL	(\$28,503.38)	(\$28,503.38)
<b>TOTALS</b>	INITIAL Distribution		(\$89,241.48)

### REMITTANCE INFORMATION

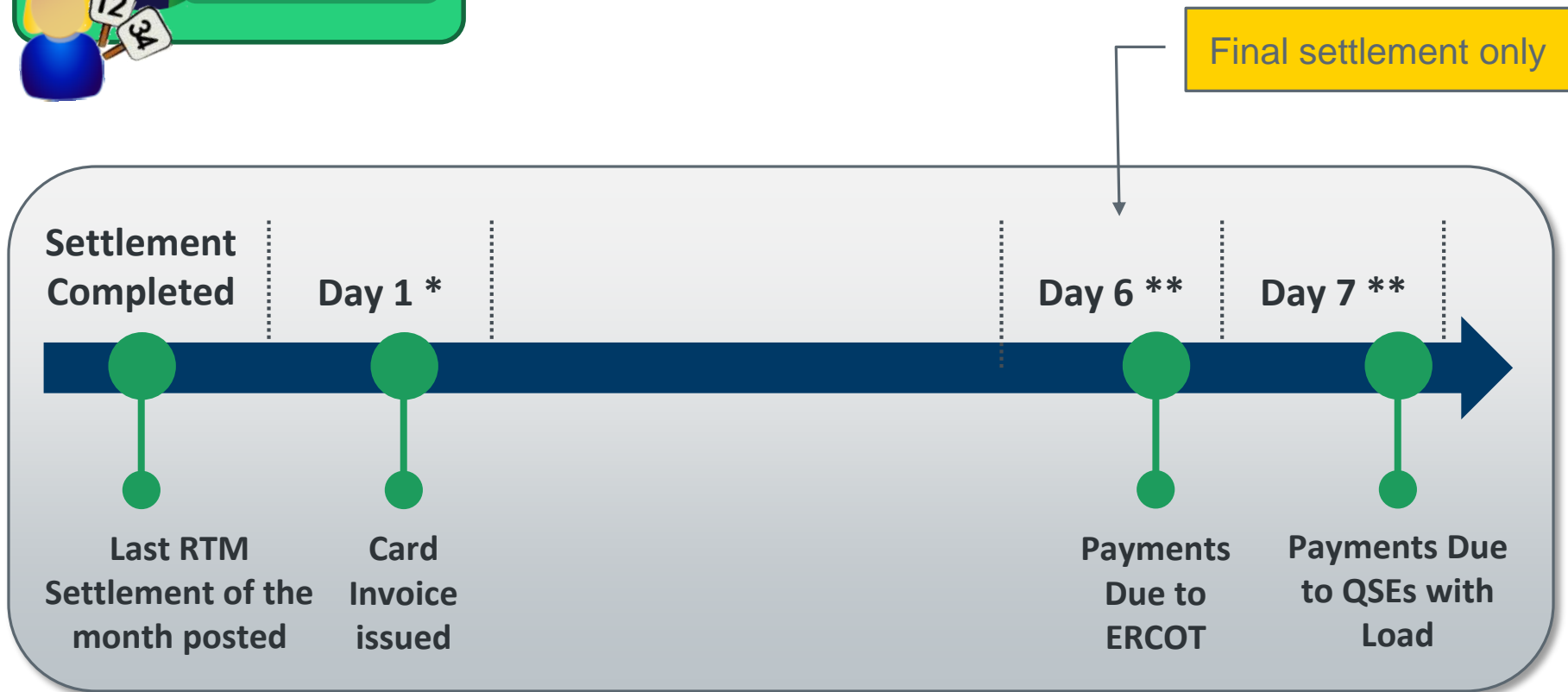
	ERCOT Account	Recipient Account
Account Name	EXAMPLE ERCOT ACCOUNT NAME	EXAMPLE ACCOUNT NAME
Bank Name	EXAMPLE ERCOT BANK NAME	EXAMPLE BANK NAME
ABA Routing Number	111111111	222222222
Account Number	333333333	444444444

### Overdue Terms

In the event ERCOT does not receive your payment by close of bank business on the "Payments are due to ERCOT" date your credit standing with ERCOT may be affected and subject to review.



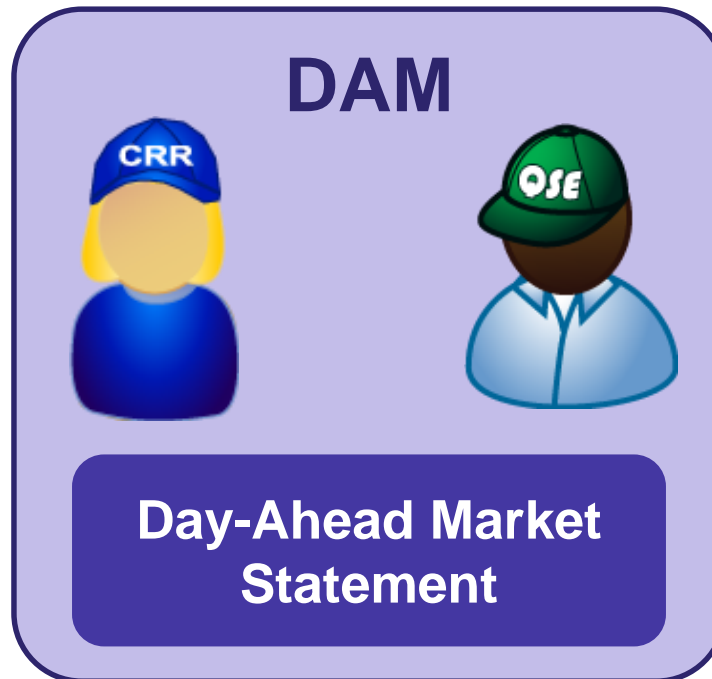
## CRR Auction Revenue Distribution (CARD) Invoice

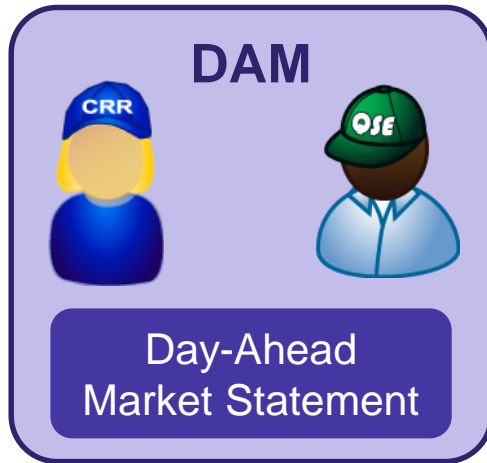


\* Business Day

\*\* Business Day & Bank Business Day







## Day-Ahead Market Statement

Statement	Receiving Entity	Timeframe	Contents
Day-Ahead Market	QSE	Daily	<ul style="list-style-type: none"> <li>Participation in the DAM</li> </ul>
Day-Ahead Market	CRRRAH	Daily	<ul style="list-style-type: none"> <li>CRRs Settled in the DAM</li> </ul>



## DAY-AHEAD MARKET STATEMENT

Participant Name **EXAMPLE CUSTOMER NAME (QSE)**  
Participant ID **123456789**

### SETTLEMENT SUMMARY

Statement ID **DAM\_STATEMENT\_20160824\_123456789\_D1**

Operating Day **08/24/2016**

#### TOTALS

Status	Version	Billed Amount
DAM	1	(\$46,846.59)
		<b>Operating Day Total (\$46,846.59)</b>

▶ DAY-AHEAD ANCILLARY SERVICES **NO ACTIVITY**

▶ DAY-AHEAD ENERGY **Billable Amt: (\$46,846.59)**

Charge Type	Vers	Status	Total Amt	Billable Amt
<a href="#">Day-Ahead Energy Payment Amount QSE Total</a>	1	DAM	(\$46,846.59)	(\$46,846.59)
			Net	(\$46,846.59)
<a href="#">Day-Ahead Energy Charge Amount QSE Total</a>	1	Q	NO ACTIVITY	NO ACTIVITY
			Net	Q

▶ DAY-AHEAD MAKE-WHOLE **NO ACTIVITY**

▶ DAY-AHEAD CONGESTION REVENUE RIGHTS **NO ACTIVITY**

#### TOTALS

Status	Version	Billed Amount
DAM	1	(\$46,846.59)
		<b>Operating Day Total (\$46,846.59)</b>



## DAY-AHEAD MARKET STATEMENT

Participant Name **EXAMPLE CUSTOMER NAME (CRR AH)**

### SETTLEMENT SUMMARY

Participant ID **123456789**

Statement ID **DAM\_STATEMENT\_20160824\_123456789\_D1** Operating Day **08/24/2016**

#### TOTALS

Status	Version	Billed Amount
DAM	1	(\$111,872.66)
Operating Day Total		<b>(\$111,872.66)</b>

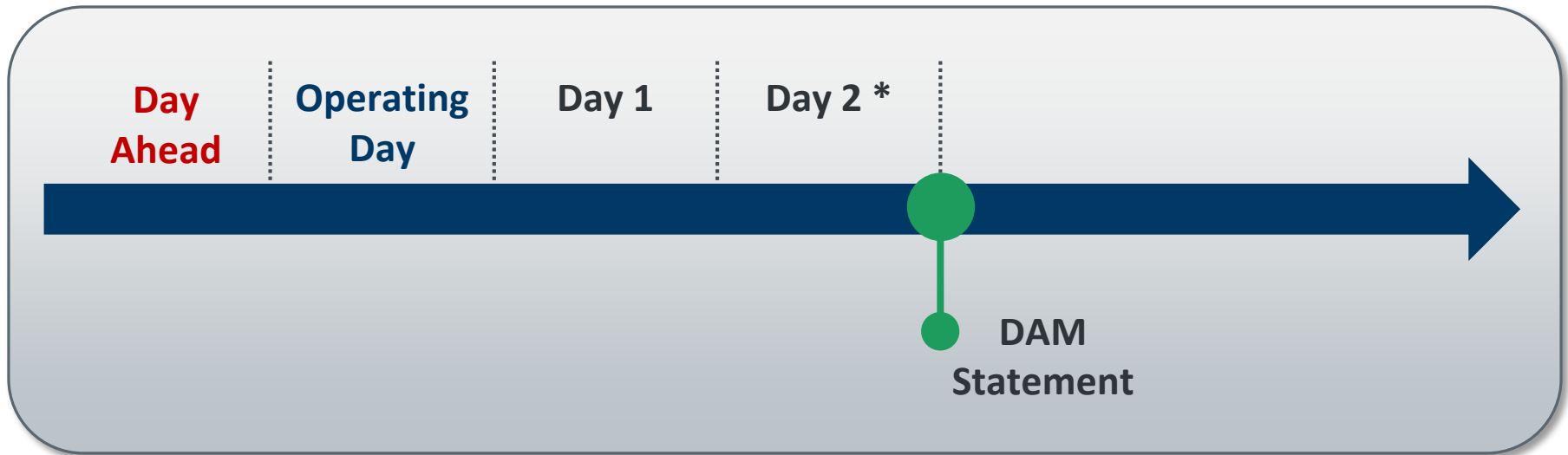
#### ► DAY-AHEAD CONGESTION REVENUE RIGHTS

Billable Amt: (\$111,872.66)

#### TOTALS

Status	Version	Billed Amount
DAM	1	(\$111,872.66)
Operating Day Total		<b>(\$111,872.66)</b>

## Day-Ahead Market Settlement Timeline



**\*Must be a Business Day or move to next Business Day**

**Real-Time**



**Real-Time Market  
Statement**

**Real-Time**

Real-Time Market  
Statement

**Real-Time Market Statements**

Statement	Receiving Entity	Timeframe	Contents
Real-Time Market	QSE	Daily	<ul style="list-style-type: none"><li>• Participation in Real-Time</li></ul>



## REAL-TIME MARKET STATEMENT

Participant Name **EXAMPLE CUSTOMER NAME (QSE)**  
Participant ID **123456789**

### SETTLEMENT SUMMARY

Statement ID **RTM\_INITIAL\_STATEMENT\_20160821\_123456789\_I1**

Operating Day **08/21/2016**

#### TOTALS

Status	Version	Billed Amount
RTM_INITIAL	1	\$1,365.09
Operating Day Total		<b>\$1,365.09</b>

▶ REAL-TIME ANCILLARY SERVICES Billable Amt: \$.00

▶ BLACK START CAPACITY Billable Amt: \$.00

▶ EMERGENCY OPERATIONS NO ACTIVITY

▶ GENERATION RESOURCE BASE-POINT DEVIATION Billable Amt: \$.00

▶ REAL-TIME CONGESTION REVENUE RIGHTS NO ACTIVITY

▶ REAL-TIME ENERGY Billable Amt: \$1,365.09

▶ REAL-TIME REVENUE NEUTRALITY ALLOCATION Billable Amt: \$.00

▶ RELIABILITY MUST-RUN Billable Amt: \$.00

▶ RELIABILITY UNIT COMMITMENT NO ACTIVITY

▶ VOLTAGE SUPPORT Billable Amt: \$.00

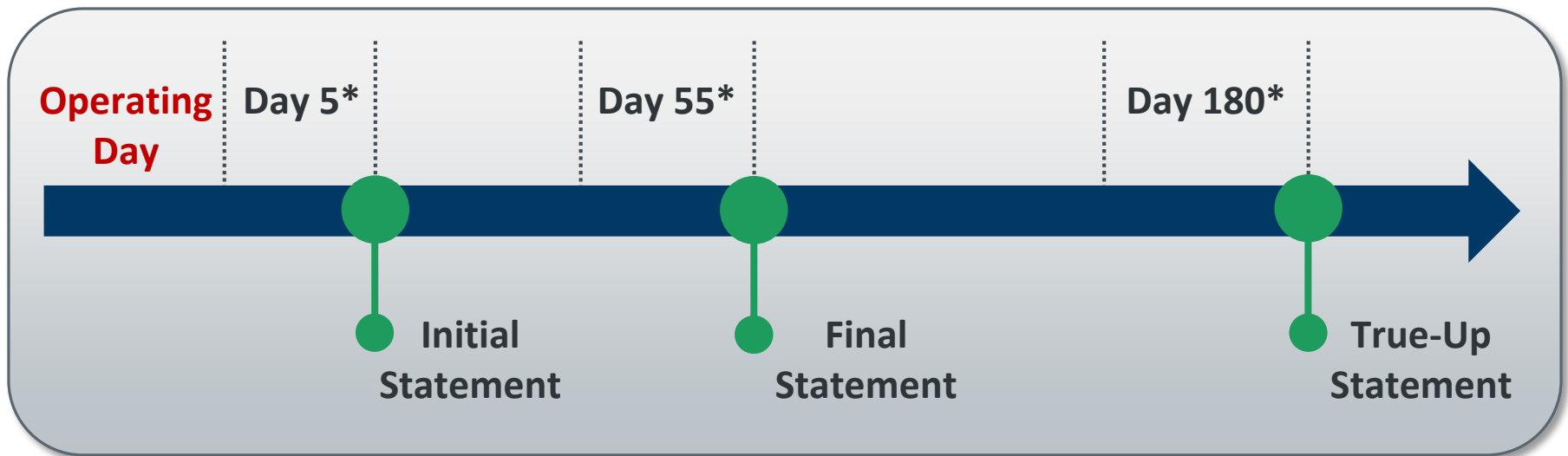
▶ ADMINISTRATIVE FEES Billable Amt: \$.00

#### TOTALS

Status	Version	Billed Amount
RTM_INITIAL	1	\$1,365.09
Operating Day Total		<b>\$1,365.09</b>



## Real-Time Settlement Timeline



\*Must be a Business Day or move to next Business Day

## Settlement Invoices

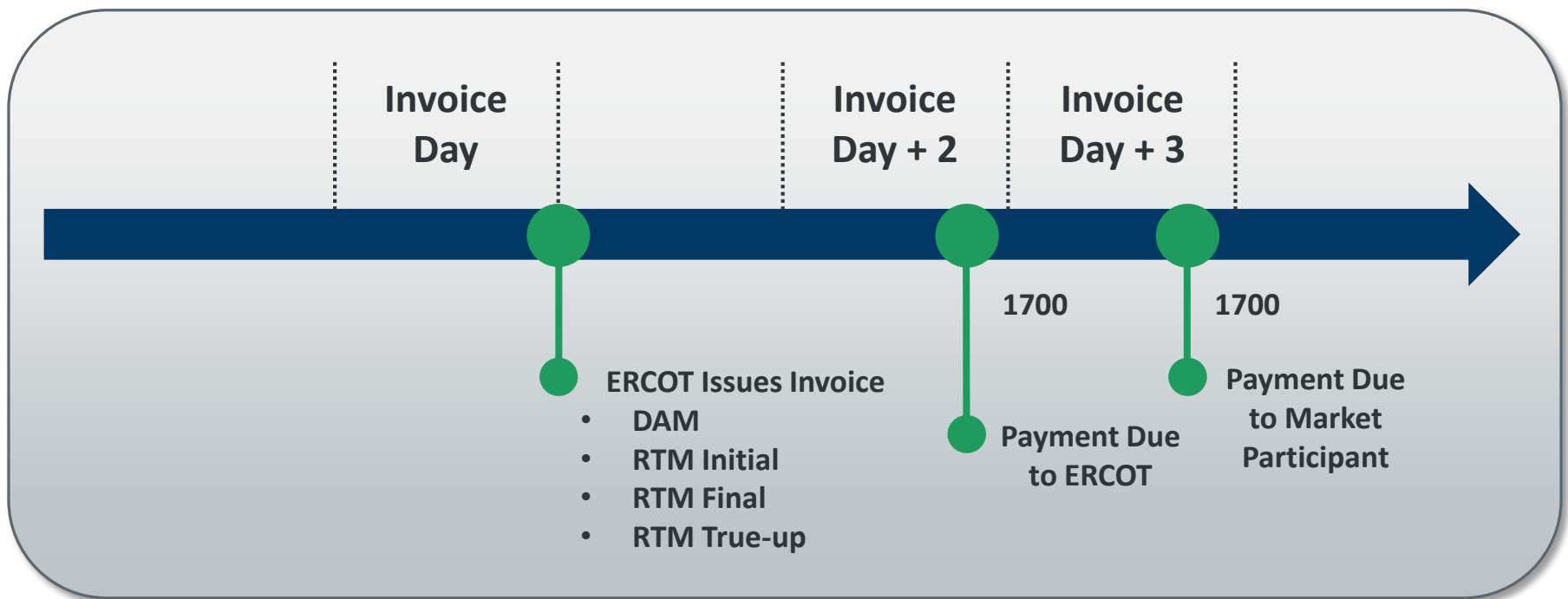


Settlement  
Invoices

## Single Daily Settlement Invoice

Receiving Entity	Statement Type	Contents
QSE	<ul style="list-style-type: none"><li>• Day-Ahead Market</li><li>• Real-Time</li></ul>	<ul style="list-style-type: none"><li>• Payments and charges from DAM</li><li>• Real-Time Initial settlement</li><li>• Real-Time Final settlement</li><li>• Real-Time True-Up settlement</li></ul>
CRRAH	Day-Ahead Market	CRRs Settled in the DAM

## Settlement Invoice Timeline



**SETTLEMENT INVOICE**

Invoice No: **STL417477**  
Invoice Date: **08/26/2016**

Payments are due to ERCOT by 5:00 P.M. **08/30/2016**  
Payments will be made to Invoice Recipients by 5:00 P.M. **08/31/2016**

**AMOUNT OWED (DUE): (\$45,481.50)**

**INVOICE RECIPIENT**

Name: **EXAMPLE CUSTOMER NAME (QSE)**  
ID: **123456789**

CATEGORY	STATEMENT ID	OPERATING DAY	STATEMENT AMOUNT	SUBTOTAL
<b>DAM Statements</b>	DAM_STATEMENT_20160824_006979876_D1	08/24/2016	(\$46,846.59)	
<b>DAM Statements Subtotal</b>				<b>(\$46,846.59)</b>
<b>Initial Statements</b>	RTM_INITIAL_STATEMENT_20160821_006979876_I1	08/21/2016	\$1,365.09	
<b>Initial Statements Subtotal</b>				<b>\$1,365.09</b>
<b>Final Statements</b>	RTM_FINAL_STATEMENT_20160702_006979876_F2	07/02/2016	\$0.00	
<b>Final Statements Subtotal</b>				<b>\$0.00</b>
<b>True-Up Statements</b>	RTM_TRUEUP_STATEMENT_20160228_006979876_T3	02/28/2016	\$0.00	
<b>True-Up Statements Subtotal</b>				<b>\$0.00</b>
<b>NET AMOUNT OWED (DUE)</b>				<b>(\$45,481.50)</b>

**REMITTANCE INFORMATION**

	<b>ERCOT Account</b>	<b>Recipient Account</b>
Account Name	EXAMPLE ERCOT ACCOUNT NAME	EXAMPLE QSE ACCOUNT NAME
Bank Name	EXAMPLE ERCOT BANK NAME	EXAMPLE QSE BANK NAME
ABA Routing Number	111111111	222222222
Account Number	333333333	444444444

**Overdue Terms**

In the event ERCOT does not receive your payment by close of bank business on the "Payments are due to ERCOT" date your credit standing with ERCOT may be affected and subject to review.

**CRR Balancing  
Account**

**CRR Balancing  
Account Invoice**



## CRR Balancing Account



CRR Balancing Account Invoice

## CRR Balancing Account Invoices

Invoice	Receiving Entity	Timeframe	Contents
CRR Balancing Account	CRRAH	Monthly	<ul style="list-style-type: none"> <li>Refund to CRR Account Owners Short-Paid in the DAM</li> </ul>
CRR Balancing Account	QSE representing Load	Monthly	<ul style="list-style-type: none"> <li>Disbursement of remaining Balancing Account funds</li> </ul>



## CRR BALANCING ACCOUNT INVOICE

Time Period: JUL-2016

Invoice No: CBA16818

Invoice Date: 08/08/2016

Payments are due to ERCOT by 5:00 P.M. (CPT) on: 08/10/2016  
Payments will be made to Invoice Recipients by 5:00 P.M. (CPT) on: 08/10/2016

**AMOUNT OWED (DUE): (\$81,942.44)**

### INVOICE RECIPIENT

Name: **EXAMPLE CUSTOMER NAME (CRRAH)**

ID: 123456789

DESCRIPTION	CATEGORY	MONTHLY TOTALS	BILLABLE AMOUNT
<b>CRRRAMT</b> - CRR Refund Amount	Channel 1	(\$81,942.44)	(\$81,942.44)
<b>TOTALS</b>	Channel 1 Distribution		(\$81,942.44)

### REMITTANCE INFORMATION

	ERCOT Account	Recipient Account
<b>Account Name</b>	EXAMPLE ERCOT ACCOUNT NAME	EXAMPLE CRRAH ACCOUNT NAME
<b>Bank Name</b>	EXAMPLE ERCOT BANK NAME	EXAMPLE CRRAH BANK NAME
<b>ABA Routing Number</b>	111111111	222222222
<b>Account Number</b>	333333333	444444444

### Overdue Terms

In the event ERCOT does not receive your payment by close of bank business on the "Payments are due to ERCOT" date your credit standing with ERCOT may be affected and subject to review.





## CRR BALANCING ACCOUNT INVOICE

Time Period: JUL-2016

Invoice No: CBA16949

Invoice Date: 08/08/2016

Payments are due to ERCOT by 5:00 P.M. (CPT) on: 08/10/2016  
Payments will be made to Invoice Recipients by 5:00 P.M. (CPT) on: 08/10/2016

**AMOUNT OWED (DUE):** \$0.00

### INVOICE RECIPIENT

Name: **EXAMPLE CUSTOMER NAME (QSE)**

ID: **123456789**

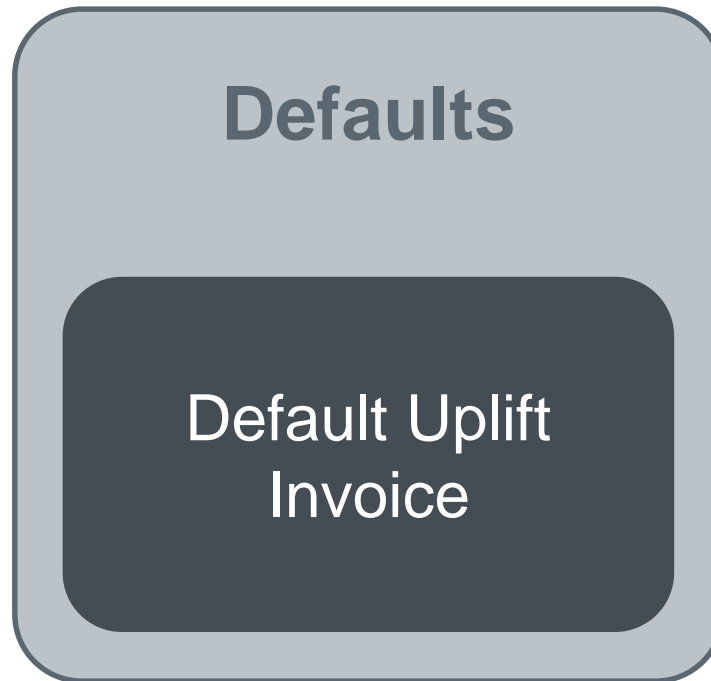
DESCRIPTION	CATEGORY	MONTHLY TOTALS	BILLABLE AMOUNT
<b>LACRRAMT</b> - Load-Allocated CRR Amount	Channel 1	\$0.00	\$0.00
<b>TOTALS</b>	Channel 1 Distribution		\$0.00

### REMITTANCE INFORMATION

	ERCOT Account	Recipient Account
Account Name	EXAMPLE ERCOT ACCOUNT NAME	EXAMPLE QSE ACCOUNT NAME
Bank Name	EXAMPLE ERCOT BANK NAME	EXAMPLE QSE BANK NAME
ABA Routing Number	111111111	222222222
Account Number	333333333	444444444

### Overdue Terms

In the event ERCOT does not receive your payment by close of bank business on the "Payments are due to ERCOT" date your credit standing with ERCOT may be affected and subject to review.

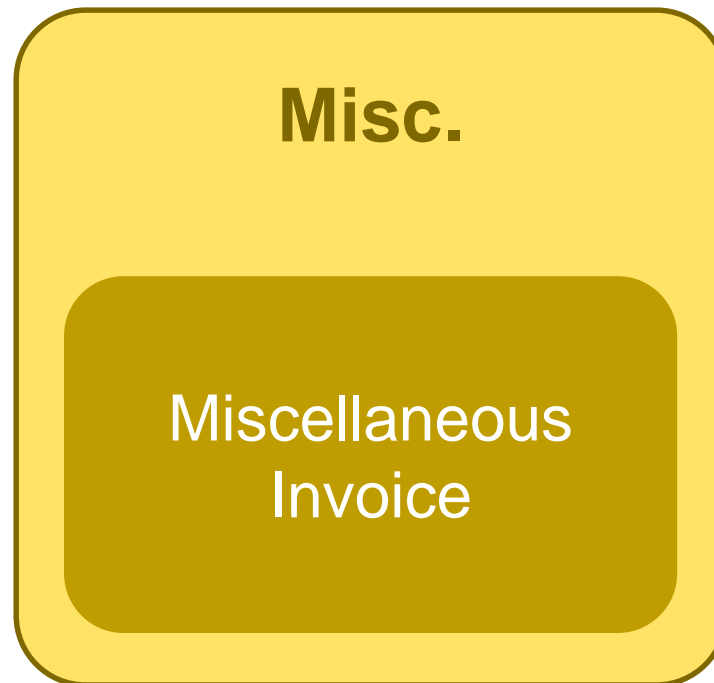


## Defaults

Default Uplift  
Invoice

## Default Uplift for DAM or Real-Time

Invoice	Receiving Entity	Timeframe	Contents
Uplift Invoice	QSE or CRRAH	Short Pay + 180 Days	<ul style="list-style-type: none"> <li>• Collects Short-Pay if no payment plan</li> <li>• Pays to recipients previously short-paid</li> </ul>

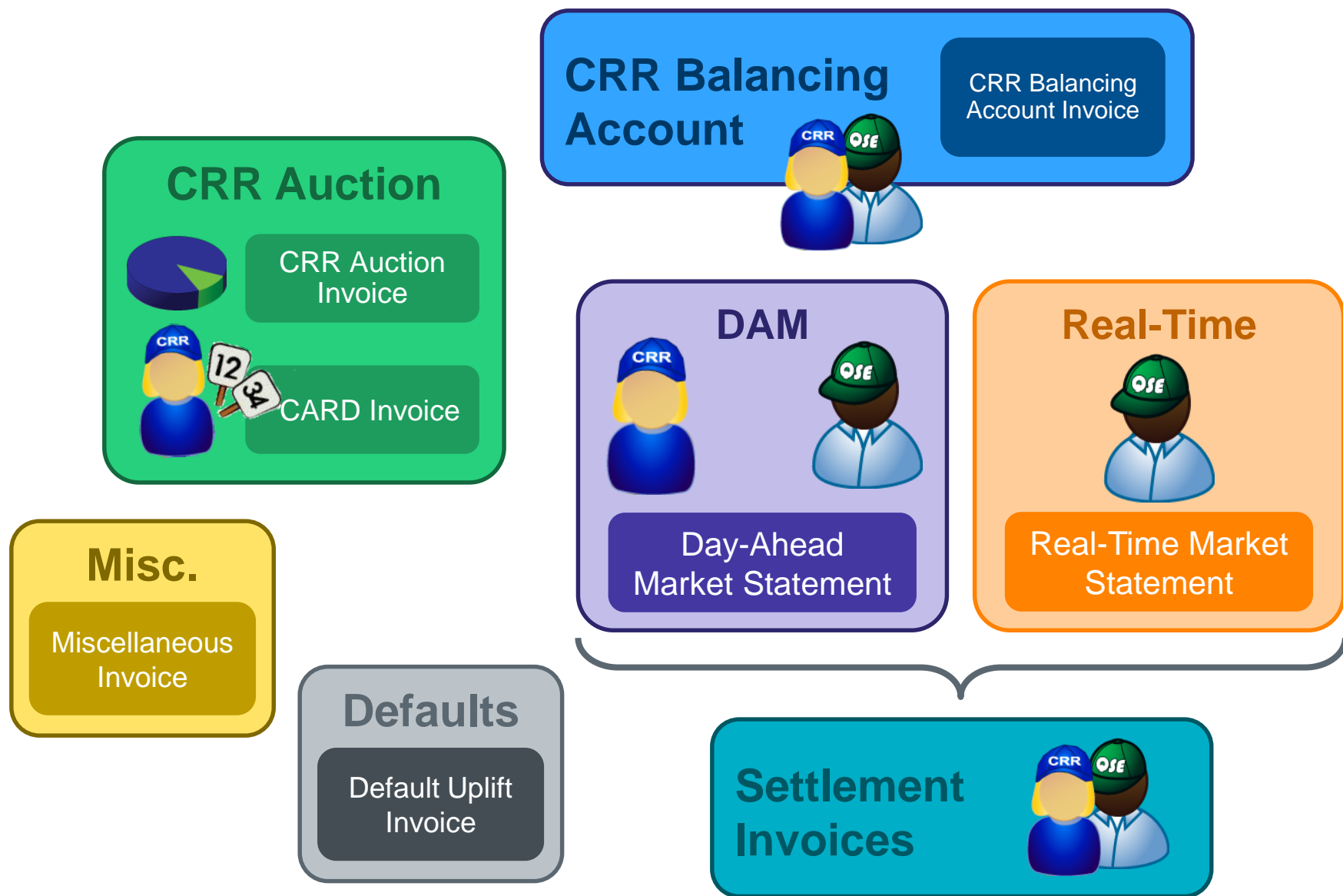


**Misc.**

Miscellaneous  
Invoice

## Miscellaneous Invoice

Invoice	Receiving Entity	Timeframe	Contents
Miscellaneous	All Market Participants	As Needed	• Miscellaneous items



## CRR Auction



Charges & Payments for CRRs



Revenue Distribution

## CRR Balancing Account

Reconcile CRR Short payments



## DAM



Participation in DAM

- Energy
- AS
- PTP Obligations

DAM Commitment

- Make-Whole

Settlement of CRRs purchased in the Auction

## RUC

Commitment

- Make-Whole
- Clawback



Decommitment

## Real-Time

Real-Time Activities

- Imbalances
- Base Point Deviations
- Other odds & ends

Settlement of PTP Obligations purchased in the DAM



Real Time Ancillary Service Settlements

Revenue Neutrality

ERCOT Protocols

<http://www.ercot.com/mktrules/nprotocols/>

ERCOT Account Management Services

[Clientservices@ercot.com](mailto:Clientservices@ercot.com)

ERCOT Market Education

<http://www.ercot.com/services/training/>

ERCOT Market Education Contact

[Training@ercot.com](mailto:Training@ercot.com)



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