

GDOP 01 – The Creation of a New Green Deal Plan Record in the GDCC

Document Control

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Document Purpose

This document provides a technical overview of the GDCC and associated functionality required to support the GDCC Green Deal Market Scenarios (GDMS) as defined within the *MRA Agreed Procedure for the Green Deal Central Charge Database* (“MAP 18”).

For the avoidance of doubt, this document is not maintained under the governance of the MRA Change Process, but rather is under the control of the MRASCo Central Administration Service (CAS) for use in the development and testing of GDCC solutions and as such forms part of the agreed GDCC User Requirements Specification for the GDCC release R12.0 baseline.

Summary

This scenario covers (from a GDCC perspective) the process for the Creation of a Green Deal Plan Record in the GDCC; it includes the following:

- Initial data submission by the Green Deal Provider or GDA Finance Party (in either case referred to as the GD Provider in this process);
- Validation of the data submitted to the GDCC;
- Creation of the Green Deal Plan record in the GDCC;
- Generation of a request for validation checks to be carried out by the Green Deal Licensee;
- Green Deal Licensee validation checks and responses to the GDCC;
- Notifications from the GDCC to the relevant EPC Register; and
- GDCC responses to the GD Provider for both successful and unsuccessful data update requests.

The following DTN data flows are used within this process:

- D0317 Create New Green Deal Plan
- D0319 Request for Initial Green Deal Licensee Validation
- D0339 Reject Initial Plan Request
- D0341 GD Licensee Response to GDCC

- D0344

Response from GDCC to GD Provider

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Market Process Scenario

The process steps within this scenario are aligned to those in the accompanying process workflow. A list of GDCC response codes is also provided cross-referenced to the market process scenario.

Step	Activity	Input Step	Output Step
1.1	<p>The GD Provider generates a D0317 data flow to the GDCC containing:</p> <ul style="list-style-type: none"> a) A unique sequential Party Instruction Number; b) EPC Register Indicator, set to E (<i>England & Wales</i>) or S (<i>Scotland</i>); c) EPC Domestic or Non-Domestic Indicator; d) An EPC Property Reference Number (PRN) as held on the relevant EPC register for the Green Deal Premises; e) The latest EPC Report Reference (RRN), this should be for the last EPC report lodged and must be for one produced post 1st April 2012 for an entry on the EPC register for England & Wales, or post 1st October 2012 for an entry on the EPC register for Scotland; f) The Postcode of the Green Deal premises; g) The Bill Payers Electricity Account Number; h) Any GD Customer Site Reference, this being an optional agreed site reference to assist the Green Deal Licensee in confirming the site where (for example) it is part of a multi-site account; i) The Green Deal Provider Registration Reference for the Green Deal Provider responsible for the Green Deal Plan; j) The GD Provider Plan Creator code, which should be set to 'P' where the request is initiated by a Green Deal Provider, or 'A' where the request is initiated by a GDAA Finance Party; and k) All MPAN Core(s) associated with the Electricity Account Number provided (in the case of a multi-site account, these should be limited to those associated with the GD Customer Site Reference provided). l) 	STARTS	1.2
1.2	The GDCC processes the incoming D0317 data flow and updates logs and records accordingly.	1.1	2.1

Step	Activity	Input Step	Output Step
2.1	<p>The GDCC carries out initial validation checks on the data received. These being:</p> <ul style="list-style-type: none"> a) All Mandatory fields are present; b) The Party Instruction Number provided is unique for the sending party; c) The EPC Property Reference Number provided is in the required format for the relevant EPC register; d) The EPC Report Reference provided is in the required format for the relevant EPC register; e) All MPAN Core(s) provided are for a valid MPAS identifier as defined in MDD and pass the standard industry modulus 11 validation; f) The Postcode provided is in a valid format; g) The GD Provider Plan Creator value is in the valid set; h) The Green Deal Provider Registration Reference is recognised by the GDCC; i) Where the GD Provider Plan Creator value is: <ul style="list-style-type: none"> i. set to 'P', the Green Deal Provider Registration Reference is associated to the GD Provider MPID for the sender of the request; or ii. set to 'A', the Green Deal Provider Registration Reference is associated to the GD Provider MPID of the GDA Finance Party who are the sender of the request; and j) The GD Provider MPID is both valid and associated with the appropriate role in GDMD for the effective date of the proposed new G D Plan ID 	1.2	3.1 (PASS) / 5.1 (FAIL)

Step	Activity	Input Step	Output Step
3.1	<p>Where data passes initial validation as set out in 2.1, the GDCC will next determine if the MPAN Core(s) provided are valid for the purposes of creating a new Green Deal Plan record in the GDCC.</p> <p>The GDCC checks each MPAN Core provided against ECOES to determine if the following conditions are met:</p> <ul style="list-style-type: none"> a) Is not associated to an export supply (which is derived in ECOES by the Line Loss Factor Class applied in MPAS); b) Has a 'Traded' status; c) Is registered to an Electricity Supplier who is a Green Deal Licensee; Is not 'in flight' between Suppliers (that is, where a Registration Request has been received and accepted within the previous ten (10) Working Days; and d) Does not have a future registration to a Supplier who is not a Green Deal Licensee. <p>Where none of the MPAN Core(s) provided satisfy these conditions, or where the valid MPANs provided are not all registered to the same Supplier, the request to create a GD Plan Id is rejected and the GD Provider informed as set out in step 5.1.</p> <p>Where more than one MPAN Core is provided that satisfies the requirements of the Green Deal MPAN Core Validation Checks, the MPAN with the lowest numerical value will be allocated as the Green Deal MPAN Core.</p>	2.1	4.1 (PASS) / 5.1 (FAIL)
4.1	<p>Where data passes the initial internal validation the GDCC will generate a request to the relevant EPC register requesting confirmation of the following:</p> <ul style="list-style-type: none"> a) The EPC Property Reference Number, and EPC Report Reference both relate to the same premises on the EPC register; and b) The EPC Report Reference relates to an EPC report produced after 1st April 2012 for an entry on the EPC register for England & Wales, or after 1st October 2012 for an entry on the EPC register for Scotland. 	3.1	6.1 (PASS) / 5.1 (FAIL)

Step	Activity	Input Step	Output Step
5.1	<p>Where the data fails validation at steps 2.1, or 3.1, the GDCC will record rejection reasons for generation in a D0339 data flow. The D0339 data flow will include the GD Providers incoming Party Instruction Number as a reference point and all relevant GDCC Response Codes generated by the GDCC for the step at which the data was rejected.</p> <p>Where the data fails validation checks carried out by the EPC Register at step 4.1, the EPC Register will return an error code for the first point at which the validation failed, this will be processed by the GDCC accordingly and a D0339 data flow containing the relevant GDCC Response Code generated by the GDCC.</p> <p>Where an D0339 data flow rejecting the request to create a new Green Deal Plan record is received by the GD Provider, they shall examine the failure reasons and rectify errors before sending a new D0317 data flow (with a new Party Instruction Number) to begin the process anew (as no Green Deal Plan record has been created).</p> <p>Should the GD Provider determine that they do not wish to request the creation of a Green Deal Plan record, following receipt of the D0339 data flow, no further action is required.</p> <p>NOTE: Where no Green Deal Plan record is created, the GDCC shall only retain a record of the data flow received, the Party Instruction Number and the rejections sent, i.e. the actual data received is not retained in the database</p>	2.1, 3.1, or 4.1	ENDS

Step	Activity	Input Step	Output Step
6.1	Where the request for the creation of a Green Deal Plan record has passed validation, the GDCC shall create a new Green Deal Plan record with the following attributes: <ol style="list-style-type: none"> a) The GD Plan ID, being the unique alpha-numeric identifier for the Green Deal Plan; b) An MPAN Core that has passed validation as set out in step 3.1 (the “Green Deal MPAN Core”); c) The identity of the GD Provider; and d) The following as provided by the GD Provider on the D0317 data flow and validated in step 2 of this process; <ol style="list-style-type: none"> 1) EPC Register Indicator; 2) EPC Domestic or Non-Domestic Indicator; 3) EPC Property Reference Number; 4) EPC Report Reference; 5) Postcode; 6) Electricity Account Number; 7) Any GD Customer Site Reference provided; 8) A Green Deal Plan Effective From Date, derived from the date that the information is received.; and 9) The Green Deal Provider Registration Reference as supplied by the GD Provider. 	4.1	6.2
6.2	The Green Deal Plan record in the GDCC shall be allocated a status of “NEW” by the system, this will act as a validation point in regard to other process events	6.1	7.1
7.1	Where a Green Deal Plan record is successfully created with a status of ‘NEW’ in the GDCC, an update will be sent to the relevant EPC register containing: <ul style="list-style-type: none"> • The GD Plan Id; • The EPC Property Reference Number; • The EPC –Report Reference; • The Market Participant ID (MPID) of the associated GD Provider; and • The effective date of the change 	6.2	8.1

Step	Activity	Input Step	Output Step
8.1	<p>Where a Green Deal Plan record has been created with a status of “NEW”, the GDCC will generate a D0319 data flow to the Green Deal Licensee to allow the validation of the account details provided and also for the provision of any additional information by the Green Deal Licensee as set out in this process. This data flow will contain the following:</p> <ul style="list-style-type: none"> a) A unique GDCC Instruction Number to allow for cross referencing of transactions; b) The Green Deal MPAN Core; c) The GD Plan ID as allocated by the GDCC; d) The Bill Payers Electricity Account Number as input by the GD Provider; and e) Any GD Customer Site Reference input by the GD Provider. <p>Where the Green Deal Licensee has previously indicated data issues on a response to a D0319 data flow as set out in step 9.1, below, and the GD Provider has submitted revised information via the GDOP 07 <i>Green Deal Provider Updates to Green Deal Plan Data</i> process, the GDCC will also generate a D0319 data flow as set out above.</p>	7.2	9.1
9.1	<p>On receipt of the D0319 data flow, the Green Deal Licensee shall make checks within their own systems to confirm the following:</p> <ul style="list-style-type: none"> a) The Electricity Account Number can be located; b) The Electricity Account Number and Green Deal MPAN Core are associated to each other; c) They are not erroneously registered as the Supplier for the Green Deal MPAN Core; and d) There is a current Bill Payer associated with the Electricity Account Number. <p>If the request fails validation checks, they will inform the GDCC via the D0341 data flow as set out in step 10.1</p>	8.1	9.2 (PASS) / 10.1 (FAIL)

Step	Activity	Input Step	Output Step
9.2	<p>Where the Green Deal Licensee is able to verify the details provided in relation to the Green Deal MPAN Core and Electricity Account Number, they will carry out internal checks to determine if any of the following are true:</p> <ul style="list-style-type: none"> a) The Account has a total energy debt higher than the agreed threshold; The metering installed at the premises is one which cannot be re-configured remotely (e.g. a Token or Smartcard meter); and / or b) The Account Number and MPAN are valid, but the GD Customer Site Reference provided cannot be located or does not correspond to the MPAN provided. <p>If any of these conditions are true, the Green Deal Licensee will inform the GDCC via the D0341 data flow as set out in step 10.1.</p>	9.1	10.1
10.1	<p>Once the Green Deal Licensee has completed the validation checks required, they will generate a D0341 data flow to the GDCC. This will contain the following:</p> <ul style="list-style-type: none"> a) The GDCC Instruction Number as provided on the incoming D0319 data flow; b) The Green Deal MPAN Core checked; and either <ul style="list-style-type: none"> 1) GD Party Response Codes relating to the reasons a request was rejected at step 9.1; or 2) GD Party Response Codes relating to the confirmation of the validity of the Electricity Account Number and MPAN presented, along with any information codes relating to total energy debt, meter type, or the GD Customer Site Reference as set out in step 9.2. 	9.1, 9.2 Or 12.1	10.2
10.2	<p>On receipt of the D0341 data flow, the GDCC will validate that it relates to a valid GDCC Instruction Number for a data flow issued to the sending Green Deal Licensee.</p> <p>Where this validation is passed, the process will continue as set out in step 13.1, otherwise a report is generated the MRASCo Central Administration Service (CAS) as per step 11.1.</p>	10.1	11.1 (FAIL) / 13.1 (PASS)
11.1	<p>Where an incoming D0341 data flow from a Green Deal Licensee cannot be associated to a valid GDCC Instruction Number to allow the process to continue, the GDCC will generate a report to the CAS for investigation.</p>	10.2	11.2
11.2	<p>CAS will contact the sender of the D0341 data flow in order to request investigation and resolution of issues.</p>	11.1	12.1

Step	Activity	Input Step	Output Step
12.1	Once contacted by CAS, the Green Deal Licensee will investigate and resolve issues with the data sent in the D0341 data flow, and generate a new D0341 data flow containing corrected data as set out in step 10.1.	11.2	10.1
13.1	On receipt of a valid D0341 data flow from the Green Deal Licensee, the GDCC will log the responses against the GDCC Instruction Number and update the datasets as required.	10.2	13.2
13.2	Once the GDCC has been updated, a D0344 data flow will be generated to the GD Provider. This will contain the following: <ul style="list-style-type: none"> a) The Party Instruction Number from the GD Providers original D0317 data flow; b) The GD Plan ID; and c) Appropriate GDCC Response Codes dependant on the outcomes of processing. 	13.1	14.1
14.1	<p>On receipt of the D0344 data flow, the GD Provider will need to determine the appropriate course of action based on the GDCC response codes contained in the incoming data flow.</p> <p>Where the GDCC response codes returned to the GD Provider indicate that the Green Deal Licensee has rejected the combination of Green Deal MPAN Core and Electricity Account Number submitted, the GD Provider may determine to either:</p> <ul style="list-style-type: none"> a) Submit amended data via the GDOP 07 <i>GD Provider Updates to Green Deal Plan Data</i> process; or b) Not progress the Green Deal Plan and request its cancellation as set out in the GDOP 02 <i>The Cancellation of a Green Deal Plan prior to Initial Notification</i> process. <p>Where the Green Deal Licensee has confirmed the validity of the data provided, but has also returned information regarding debt and/or potential metering issues, the GD Provider may determine to either:</p> <ul style="list-style-type: none"> c) Progress to the GDOP 03 <i>Initial Notification of a Pending Green Deal</i> process; or d) Not progress the Green Deal Plan and request its cancellation as set out in the GDOP 02 <i>The Cancellation of a Green Deal Plan prior to Initial Notification</i> process <p>Where the Green Deal Licensee has confirmed the validity of the data provided, and no other indicators are returned it is expected that the GD Provider would progress to the GDOP 03 <i>Initial Notification of a Pending Green Deal</i> process.</p>	13.2	ENDS

GDCC and Party Response Codes used in the Scenario

Step	Event	Flow	Response Code Generated	Flow
2.1	Not all Mandatory fields are populated	D0317	301 Not all mandatory data provided	D0339
	The PRN provided is not in the required format for the relevant EPC register		302 PRN invalid format	
	The EPC Report Reference provided is not in the required format for the relevant EPC register		303 EPC report reference invalid	
	The EPC Register indicator provided is not in the valid set		307 EPC Register indicator invalid	
	MPAN Cores not for a valid DNO (i.e. 1 st two digits not valid)		309 MPAN Core invalid	
	MPAN Cores provided fail the standard industry modulus 11 validation		309 MPAN Core invalid	
	The Postcode provided is not in a valid format		311 Post Code invalid format	
	The Party Instruction Number provided is a duplicate value for one already logged		350 Invalid Party Instruction Number	
	The Green Deal Provider Registration Reference provided is not recognised by the GDCC		346 Green Deal Provider Registration Reference not valid	
	The GD Provider Plan Creator value provided is not in the valid set		347 GD Provider Plan Creator value invalid	
The Green Deal Provider Registration Reference is not associated to the GD Provider MPID for the sender of the request	349 Green Deal Provider Registration Reference not valid with GD Provider MPID for sender			
The Combination of MPID and Market Participant Id for the sender is not valid in GDMD for the EFD of the incoming transaction	367 Combination of MPID and Market Role Id not valid in GDMD for Sender for EFD			
3.1	MPAN is valid format, but not found on ECOES	D0317	309 MPAN Core invalid	D0339
	LLFC is for an export meter according to ECOES		312 MPAN Core LLFC not valid for import meter	

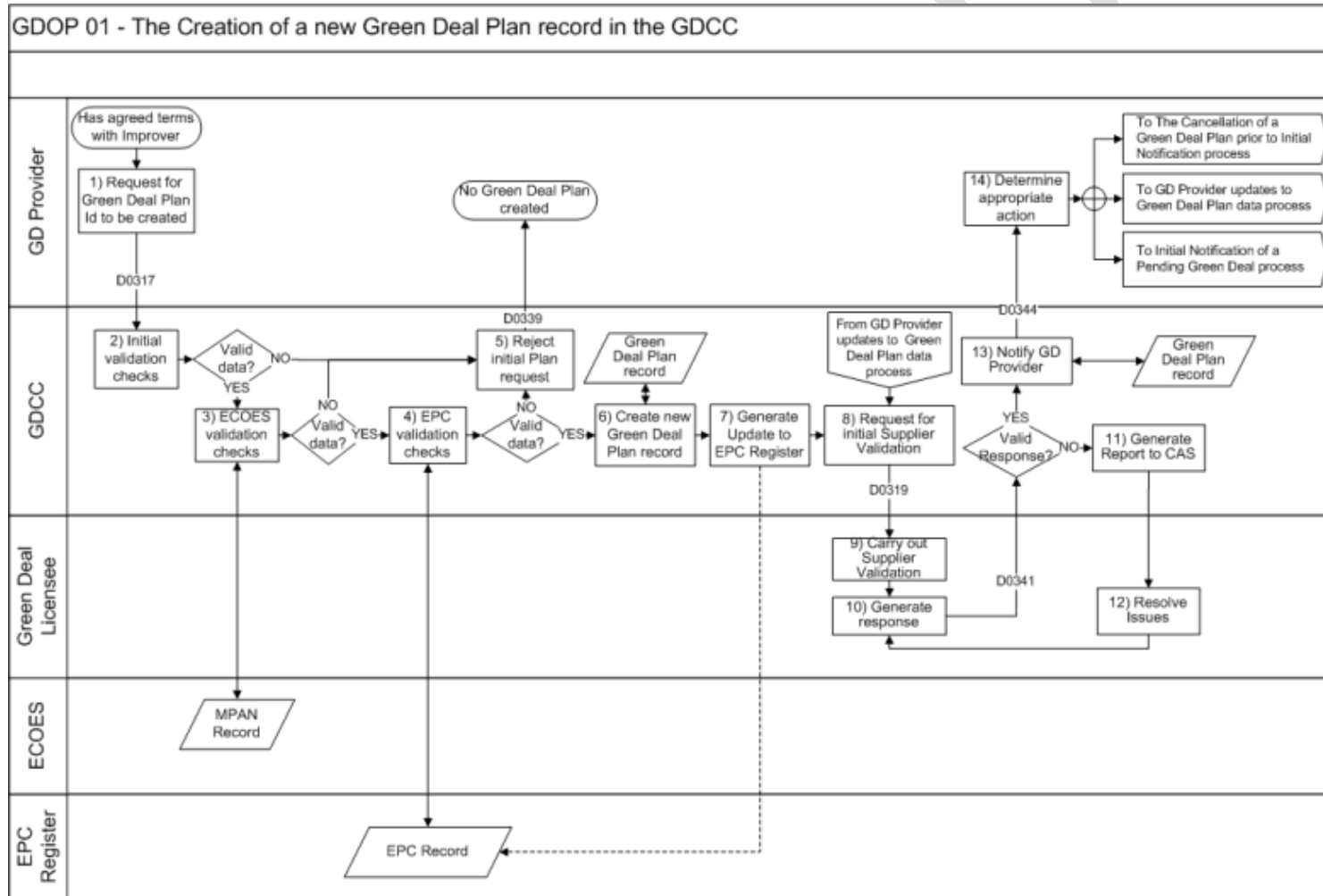
Step	Event	Flow	Response Code Generated	Flow
	Multiple valid MPANS provided, with supplies split between different Suppliers		313 Valid MPAN Cores not all registered to same Supplier	
	Supplier for valid MPAN is not a Green Deal Licensee in GDCC		314 Supplier not Green Deal Licensee	
	MPAN not 'traded' (i.e. not live and registered to a Supplier)		341 MPAN Core not at correct registration status	
	MPAN has a registration request against it that is still in objection period (i.e. is 'in flight' between Suppliers)		341 MPAN Core not at correct registration status	
	A future registration to a Supplier who is not a Green Deal Supplier exists		361 Future Registration to Supplier who is not Green Deal Licensee	
4.1	The EPC PRN is not found on the EPC register indicated	D0317	362 EPC PRN reference not found on register	D0339
	Mismatch between the PRN and EPC Report Reference		304 EPC report reference not valid for PRN	
	The EPC Report Reference is not the latest report for the premises.		305 EPC report reference not latest for PRN	
	The EPC Report Reference provided is for a report prior to April 1 st 2012 for the England & Wales EPC Register or 1 st October 2012 for the Scottish EPC Register		306 EPC report reference not valid for Green Deal	
	The PRN reference provided does not align to the type indicator provided (i.e. domestic/non-domestic mismatch)		351 EPC PRN type indicator invalid	
9.1	Electricity Account Number provided is not current or not found by Green Deal Licensee	D0319	315 Electricity Account Number not found	D0341
	No Bill Payer for account e.g. long-term vacant		316 No current Bill Payer	
	Electricity Account Number and Green Deal MPAN Core not for same account on Supplier systems		318 MPAN Core not associated with the Electricity Account Number presented	
	Systems show that an Erroneous Registration is in the process of being resolved i.e. the current Supplier expects to lose the MPAN back to another Supplier following resolution of issues		332 An Erroneous Registration is in the process of being resolved	

Step	Event	Flow	Response Code Generated	Flow
9.2	Account Number and MPAN match and pass all criteria as set out in 9.1	D0319	101 Request processed successfully	D0341
	Request is valid, but debt exceeds agreed level for a domestic product/account		201 Debt on account exceeds agreed lower threshold	
	The metering installed at the premises is one which cannot be re-configured remotely (e.g. a Token or Smartcard meter)		202 Meter Type does not support remote application of Green Deal charges	
	Request is valid, but debt exceeds agreed level for a non-domestic product/account		203 Debt on account exceeds agreed upper threshold	
	The Account Number and MPAN are valid, but the GD Customer Site Reference provided cannot be located or does not correspond to the MPAN provided		205 GD Customer Site Reference Mismatch	
13.2	Account Number and MPAN match and pass all criteria as set out in 9.2	D0317	101 Request processed successfully	D0344
	Request is valid, but debt exceeds agreed level for a domestic product/account		201 Debt on account exceeds agreed lower threshold	
	The metering installed at the premises is one which cannot be re-configured remotely (e.g. a Token or Smartcard meter)		202 Meter Type does not support remote application of Green Deal charges	
	Request is valid, but debt exceeds agreed level for a non-domestic product/account		203 Debt on account exceeds agreed upper threshold	
	The Account Number and MPAN are valid, but the GD Customer Site Reference provided cannot be located or does not correspond to the MPAN provided		205 GD Customer Site Reference Mismatch	
	Electricity Account Number provided not found by Green Deal Licensee		315 Electricity Account Number not found	
	No Bill Payer for account e.g. long-term vacant		316 No current Bill Payer	

Step	Event	Flow	Response Code Generated	Flow
	Electricity Account Number and Green Deal MPAN Core not for same account on Supplier systems		318 MPAN Core not associated with the Electricity Account Number presented	
	Systems show that an Erroneous Registration is in the process of being resolved i.e. the current Supplier expects to lose the MPAN back to another Supplier following resolution of issues		332 An Erroneous Registration is in the process of being resolved	

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Market Process Scenario Workflow



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