



eircom **wholesale**

Service Level Agreement

Provision and Repair of Unbundled Local
Metallic Path (ULMP), Line Sharing (LS) and
Combined GNP and ULMP (GLUMP)

Issue 11

Effective from 02/10/2012

Revision history

Version	Date	Revised by	Revision details
10.0	01 October 2011	eircom Wholesale	Industry Review
11.0	02 October 2012	eircom Wholesale	Industry Review

Associated documents

Title	Location
Premium Repair SLA	www.eircomwholesale.ie
Premium Repair LLU Product Description	www.eircomwholesale.ie
LLU Prioritised Repair Product Description	www.eircomwholesale.ie
LLU IPM	www.eircomwholesale.ie

1. Introduction

This SLA is effective from 02 October 2012 and shall remain in effect until amended following agreement of the parties to such amendment, or following determination by ComReg.

- 1 This document details the service levels to which eircom commits with regard to the provision and repair, of Unbundled Local Metallic Path (ULMP), Line Sharing (LS) products and Combined GNP and ULMP (GLUMP), hereafter referred to as ULMP, LS and GLUMP. The services are at all times provided subject to the terms and conditions as set out in the Access Reference Offer, Annex C, Service Schedule 102, 103 and 106.
- 2 The services include the provision and repair of ULMP, LS and GLUMP paths ordered pursuant to an Agreement being in place between eircom and the Access Seeker ordering the services¹.
- 3 The services described in the SLA are subject to the industry agreed Inter-operator Process Manuals (IPMs) that define the detailed operational process associated with the provision of ULMP, LS and GLUMP. The IPMs are a representation of how the SLA parameters are supported in practice and must be read in conjunction with the SLA.
- 4 The definitions in Annex A of the Access Reference Offer will apply unless explicitly stated.
- 5 The fault repair service levels set out in the SLA are applicable to ULMP, LS and GLUMP products available at eircom exchanges where an Access Seeker has collocation facilities in place.

Metrics

eircom shall be responsible for monitoring and measuring performance metrics and shall report on the agreed metrics to the operator on a monthly basis for provision and a quarterly basis for repair. Provisioning performance reports will be provided within 20 Working Days² of the end of the month. Repair performance reports will be provided within one month of the end of the reporting quarter. An outline to guidelines for payment of penalty credits is provided in Appendix 2. A worked penalty calculation example can be found in Appendix 6.

¹ Monitoring of web-services will be conducted over the next six months with a view to identifying suitable metrics and targets for inclusion in the next revision of the SLA.

² eircom Wholesale will reduce the reporting time down to 10 Working Days no later than six months after the SLA comes into affect.

2. Provisioning and Repair Process Definitions

Definitions

Working Day: As defined in the ARO.

Line Fault: An LLU line fault is defined as a fault reported by a customer of an OAO, where the fault results in disrupted or degraded service.

Repair Time: The duration between the time a fault is received and accepted by eircom in accordance with the fault reporting procedures and the time the fault is closed by eircom with the Access Seeker identified as the last Unconfirmed Clear, less parked time.

Unconfirmed Clear: On completion of a repair, a fault ticket receives an Unconfirmed Clear status and the ticket is parked. The clock is stopped until:-

- a) it is accepted as cleared by the Access Seeker and therefore becomes a "Confirmed Clear Permanent
- b) or 10 Working Hours from the Unconfirmed Clear notification to the Access Seeker has elapsed in which case the fault becomes a "Confirmed Clear Permanent" by default
- c) or the clear is legitimately rejected by the Access Seeker and the repair clock is restarted.

Valid Faults: all faults other than those excluded faults in accordance with Appendix 1, and eircom defined non-faults (clear codes 00-99), internal wiring faults and CPE faults, as described in the IPM.

Confirmed Clear Permanent: If a Fault Clear, has either been accepted by the Access Seeker or 10 Working Hours has elapsed from Unconfirmed Clear notification, the fault ticket is given a Confirmed Clear Permanent status. In addition, a final clear code is associated with the fault ticket and it is permanently closed.

However, if the Access Seeker responds with a rejection of the repair, within 10 Working Hours, the ticket is un-parked, the clock is re-started and repair work recommences. On completion of the repair, the Unconfirmed Clear status is applied again, the Access Seeker is notified and the process above is repeated.

Parked Time: The times during which the SLA clock is stopped which include; -

- time not covered by the relevant SLA
- or during out of hours periods where resources being made available on a reasonable endeavours basis are unavailable
- or circumstances as outlined in Appendix 3.

3. SLA Schedule

The SLA schedule is set out in the following tables. Where limitations apply to any activity in this SLA, these are detailed after the table to which they apply. The party with the obligation in all instances is eircom.

All Performance Targets will apply at an Operator level per metric and penalties are not payable for metrics that are achieved. The SLA penalty regime is only valid for individual performance metrics where a minimum of €100 penalty has been incurred for a particular SLA activity in any given month per OAO.

In the event of query or dispute, the relevant dispute process will be followed.

4. Service Level Summary for Provisioning Process Points

Table 1: Account \ Line Status Enquiry

Activity Number	Activity Description	Performance Metric	Performance Target	Service Credit for not meeting Performance Metric Target
1	DRL Order Type	Advise of completion of the accepted order by 1700 on the first working day following the working day the request was recorded on the UG.	98% of request in accordance with performance metric.	EURO 12.70 per account affected per Working Day or part thereof of delay.
2	ULE Order Type	Advise of completion of the accepted order by 1700 on the first Working Day following the Working Day the request was recorded on the UG.	97% of request in accordance with performance metric.	EURO 12.70 per account affected per Working Day or part thereof of delay.
3	Web-services	To be Determined (Refer to Foot Note 1 on P:2)	To be Determined (Refer to Foot Note 1 on P:2)	To be Determined

Table 2: ULMP, LS and GLUMP Standard Validations Timeframes

Activity Number	Activity Description	Performance Metric	Performance Target	Service Credit for not meeting Performance Metric Target
4	Order Validation PU - Acceptance or rejection of an order for ULMP	Advice of acceptance of the order by 1700hrs on the Working Day following the Working Day the request was recorded on the UG	98% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.
5	Order Validation PUI - Acceptance or rejection of an order for ULMP	Advice of acceptance of the order by 1700hrs on the Working Day following the Working Day the request was recorded on the UG	98% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.
6	Order Validation PLS - Acceptance or rejection of an order for Line Share	Advice of acceptance of the order by 1700hrs on the Working Day following the Working Day the request was recorded on the UG	98% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.
7	Order Validation PLB - Acceptance or rejection of an order for Line Share	Advice of acceptance of the order by 1700hrs on the Working Day following the Working Day the request was recorded on the UG	98% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.
8	Order Validation CHP- Acceptance or rejection of an order for Change Pins	Advice of acceptance of the order by 1700hrs on the Working Day following the Working Day the request was recorded on the UG	98% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.
9	Order Validation PUS - Acceptance or rejection of a New Line or Spare Path Order	Advice of acceptance of the order by 1700hrs on the second Working Day following the Working Day the request was recorded on the UG	98% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.

10	Order Validation - Convert or rejection of a Convert order	Advice of acceptance of the order by 1700hrs on the Working Day following the Working Day the request was recorded on the UG	98% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.
11	Order Validation PUG - Acceptance or rejection of an order for GLUMP	Advice of acceptance of the order by 1700hrs on the Working Day following the Working Day the request was recorded on the UG	98% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.

Table 3: ULMP, LS and GLUMP Standard Delivery Timeframes

Activity Number	Activity Description	Performance Metric	Performance Target	Service Credit for not meeting Performance Metric Target
12	Delivery Notification PU - Provision of ULMP on a Working Line	Advice of completion of accepted order by 17:00 on the fifth Working Day following Order Submission	95% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.
13	Delivery Notification PUI - Provision of ULMP on an insitu Line	Advice of completion of accepted order by 17:00 on the fifth Working Day following Order Submission	95% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.
14	Delivery Notification PLS - Provision of Line Sharing on a Working Line	Advice of completion of accepted order by 17:00 on the fifth Working Day following Order Submission	95% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.
15	Delivery Notification PLB - Provision of Line Sharing on a Working Line	Advice of completion of accepted order by 17:00 on the fifth Working Day following Order Submission	95% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.
16	Delivery Notification CHP - Re-	Advice of completion of accepted order by	95% of request in accordance with performance metric	EURO 12.70 per account affected per

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	jumping of the LLU service to new pins on the OAO block.	17:00 on the fifth Working Day following Order Submission		Working Day or part thereof of delay.
17	Delivery Notification Convert - Provision of ULMP on a former Line Share line	Advice of completion of accepted order by 17:00 on the fifth Working Day following Order Submission	95% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.
18	Delivery Notification PUS - Provision of ULMP on a New Line or Spare Path	Advice of completion of accepted order by 17:00 on the tenth* Working Day following Order Submission	80% of validated Orders will have Delivery Notification sent in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.
19	Delivery Notification PUG - Provision of GLUMP line	Advice of completion of accepted order by 17:00 on the fifth Working Day following Order Submission	95% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay.

* Advice of completion of accepted order by 17:00 on the tenth Working Day following Order Submission became effective from 1st September 2011.

Table 4: ULMP and GLUMP Soft Migration Delivery Timeframes

Activity Number	Activity Description	Performance Metric	Performance Target	Service Credit for not meeting Performance Metric Target
20	PSU Order Type Activation of accepted ULMP provide order and notification of completion	Advice of completion of the accepted order by 1700 on the second Working Day following the Working Day the request was recorded on the UG.	97% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay
21	PSG Order Type Activation of accepted GLUMP provide order and notification of completion	Advice of completion of the accepted order by 1700 on the second Working Day following the Working Day the request was recorded on the UG	97% of request in accordance with performance metric	EURO 12.70 per account affected per Working Day or part thereof of delay

5. Fault Repair Service Level Summary

For the purposes of this SLA, a fault is defined as any reported condition on an ULMP/LS access network circuit which does not meet eircom Operational PSTN standards, as defined in the Access Reference Offer, Annex C, Service Schedules 102, 103 and 106, Appendix 1.

The Access Seeker is responsible to undertake initial testing to prove the fault to the eircom local loop circuit, prior to submitting a Valid Fault report as per the IPM.

The Access Seeker is also responsible to prove all faults out of their DSLAM equipment and the port associated with the line and perform CPE tests before reporting a fault, which would then be accepted by eircom.

NOTE: Once a GLUMP path has been delivered all GLUMP faults follow the ULMP Process.

Table 5: Fault Resolution

ULMP Faults - No Line Test Data Supplied by AS

Activity Number	Activity Description	Performance Metric	Performance Target	Service Credit for not meeting Performance Metric Target
22a	Resolution of ULMP Fault	Repair Time: 3 Working Days	Target 73%	See Article 1 Appendix 5
22b	Resolution of ULMP Fault	Repair Time: 6 Working Days	Target 92%	See Article 2 Appendix 5
22c	Resolution of ULMP Fault	Repair Time: 11 Working Days	Target 100%	See Article 3 Appendix 5

Line Share Faults or ULMP Faults with Line Test Data Supplied by AS

Activity Number	Activity Description	Performance Metric	Performance Target	Service Credit for not meeting Performance Metric Target
23a	Resolution of Line Share Fault or ULMP Fault with Test Results	Repair Time: 2 Working Days	Target 73%	See Article 1 Appendix 4
23b	Resolution of Line Share Fault or ULMP Fault with Test Results	Repair Time: 5 Working Days	Target 92%	See Article 2 Appendix 4
23c	Resolution of Line Share Fault or ULMP Fault with Test Results	Repair Time: 10 Working Days	Target 100%	See Article 3 Appendix 4

Table 6: Statistical Reporting

Activity Number	Activity Description	Performance Metric	Performance Target	Service Credit for not meeting Performance Metric Target
24	Submission of monthly provisioning performance metrics to the Operator's	Provide performance metrics to the Operator's 20 days following the end of the month.	In accordance with metric.	Default Interest rate as per Access Agreement on all penalties due.
25	Submission of quarterly repair performance metrics to the Operator's	Provide performance metrics to the Operator's one month following the end of the quarter.	In accordance with metric	Default Interest rate as per Access Agreement on all penalties due.

Appendix 1 - Exclusions

Service Assurance

The circuit will be deemed available to the Access Seeker and is therefore excluded for the purposes of calculating credits if the non-availability arises from or is otherwise caused or contributed to by the following circumstances:

- Where the fault is caused by, third party activities such as cable damage, or gunshot.
- Where the fault is caused by severe weather conditions such as storms, flooding, fire or lightning
- Where a fault occurrence is due to changes in Customer provided apparatus
- Where the fault is not in the eircom network i.e. Access Seeker non-fault
- Where a fault is reported and no fault is detected when the service is tested from end to end.
- Any period of scheduled outages notified to the Access Seeker in accordance with the planned works procedure
- A failure by the Access Seeker or its customer to allow access to premises or equipment when requested
- The Access Seeker or its customer failing to operate the service in accordance with eircom terms and conditions for the provision of the service
- A failure of the customer to report the fault in accordance with the fault reporting procedures

Service Delivery

New Line or Spare Path Orders Only

Orders will be excluded from SLA in the event of any of the following circumstances arising:

- Customer delay
- The order requires the completion of network construction work.

Appendix 2 - Guidelines for Payment of Penalty Credits

eircom shall provide Access Seekers with penalty statements one month in arrears with the statement being reconciled between the parties during month 3 of the quarter with payment made in the next billing cycle.

In the event that the Access Seeker is of the opinion that a penalty liability has been incorrectly calculated then a claim must be submitted in writing to:

The Penalty Manager
eircom Wholesale.
eircom HQ,
1 Heuston South Quarter,
St. Johns Road,
Dublin 8.

In case of a query, any supporting documentation must be supplied within ten Working Days of a request by eircom.

Any adjustment will be remitted by way of credit against the account associated with the claim.

Appendix 3 - Parked Time

Circumstances whereby a fault cannot be progressed on behalf of an Access Seeker, and the fault is parked are outlined as follows; -

- eircom cannot get co-operation from the Access Seeker with testing the line
- When a fault ticket receives an Unconfirmed Clear status, it will be parked.
- Where an engineer is dispatched and cannot get access to the end user premises
- Where to proceed would result in a health and safety risk, avoidance of which could not have been realistically predicted by eircom.
- If it is requested by the access seeker and/or end user
- Where a third party, other than eircom contracted entities, restricts eircom from working on resolution of the fault.
- Force Majeure

Appendix 4

Repair Service Credit Algorithm – Line Share Faults or ULMP Faults with Line Test Data provided by AS

2 Day Repair

Target	Actual Performance	Service CREDIT
73% Repair in 2 Days	X% = Actual 2 Day Repair Performance	€4.00
92% Repair in 5Days	Y% = Actual 5 Day Repair Performance	€7.00
100% Repair in 10 Days	Z% = Actual 10 Day Repair Performance	€10.00

Faults Repaired and applicable for SLA payment for the Quarter are assembled to give "List 1".

List 1 = all tickets assessed under SLA for that period

List 2 = all tickets closed after Day 2

List 3 = all tickets closed after Day 5

List 4 = all tickets closed after Day 10

List 5 = List 2 minus List 3 – all tickets closed on days 3through 5

List 6 = List 3 minus List 4 – all tickets closed on days 6 through 10

C(x) = count of tickets in a given list

A(x) = average ticket days in a given list

Σ(x) = cumulative ticket days in a given list

Article 1: 73 % service credit Calculation

Where this SLA is not met, the SLA penalty penalises Days 3 to 5 of all tickets in breach. The 73% target mitigates the commercial impact of this article.

Number of Faults subject to Penalty

Number of Faults subject to penalty = $C(2)-C(1)*(1-0.73)$

Multiplier

Penalty Days (multiplier) = $(\sum(5)-2*C(5)+3C(6)+3C(4))/C(2)$ – Average penalty days of all tickets in breach, where tickets closed on or after Day 6 are deemed to have breached this SLA by the maximum 3 days.

Service Credit 1 = (Number of Faults subject to penalty) * (Multiplier) * Penalty

Article 2: 92 % Service Credit Calculation

Where this SLA is not met, the SLA penalty penalises Days 6 to 10 of all tickets in breach. The 92% target mitigates the commercial impact of this article.

Number of Faults subject to Penalty

Number of Faults subject to penalty = $C(3)-C(1)*(1-0.92)$

Multiplier

Penalty Days (multiplier) = $(\sum(6)-5*C(6)+ 5*C(4))/C(3)$ – Average penalty days of all tickets in breach, where tickets closed on or after Day 11 are as having breached this SLA by the maximum 5 days.

Service Credit 2 = (Number of Faults subject to penalty) * (Multiplier) * Penalty

Article 3: 100 % Service Credit Calculation

Number of Faults subject to Penalty

Number of Faults subject to penalty $C(4)$ (Count of all tickets closed on or after day 11)

Multiplier

= $(\sum(4)-10*C(4))/C(4)$

Service Credit 3 = (Number of Faults subject to penalty) * (Multiplier) * Penalty

Total Service Credit = Service Credit 1 + Service Credit 2 + Service Credit 3

Appendix 5

Repair Service Credit Algorithm – ULMP Faults - No Line Test Data provided by AS

3 Day Repair

Target	Actual Performance	Service CREDIT
73% Repair in 3 Days	X% = Actual 3 Day Repair Performance	€4.00
92% Repair in 6 Days	Y% = Actual 6 Day Repair Performance	€7.00
100% Repair in 11 Days	Z% = Actual 11 Day Repair Performance	€10.00

Faults Repaired and applicable for SLA payment for the Quarter are assembled to give "List 1".

List 1 = all tickets assessed under SLA for that period

List 2 = all tickets closed after Day 3

List 3 = all tickets closed after Day 6

List 4 = all tickets closed after Day 11

List 5 = List 2 minus List 3 – all tickets closed on days 4 through 6

List 6 = List 3 minus List 4 – all tickets closed on days 7 through 11

C(x) = count of tickets in a given list

A(x) = average ticket days in a given list

$\Sigma(x)$ = cumulative ticket days in a given list

Article 1: 73 % service credit Calculation

Where this SLA is not met, the SLA penalty penalises Days 4 to 6 of all tickets in breach. The 73% target mitigates the commercial impact of this article.

Number of Faults subject to Penalty

Number of Faults subject to penalty = $C(2) - C(1) * (1 - 0.73)$

Multiplier

Penalty Days (multiplier) = $(\Sigma(5) - 3 * C(5) + 3C(6) + 3C(4)) / C(2)$ – Average penalty days of all tickets in breach, where tickets closed on or after Day 7 are deemed to have breached this SLA by the maximum 3 days.

Service Credit 1 = (Number of Faults subject to penalty) * (Multiplier) * Penalty

Article 2: 92 % Service Credit Calculation

Where this SLA is not met, the SLA penalty penalises Days 7 to 11 of all tickets in breach. The 92% target mitigates the commercial impact of this article.

Number of Faults subject to Penalty

Number of Faults subject to penalty = $C(3) - C(1) * (1 - 0.92)$

Multiplier

Penalty Days (multiplier) = $(\Sigma(6) - 6 * C(6) + 5 * C(4)) / C(3)$ – Average penalty days of all tickets in breach, where tickets closed on or after Day 12 are as having breached this SLA by the maximum 5 days.

Service Credit 2 = (Number of Faults subject to penalty) * (Multiplier) * Penalty

Article 3: 100 % Service Credit Calculation

Number of Faults subject to Penalty

Number of Faults subject to penalty C(4) (Count of all tickets closed on or after day 12)

Multiplier

= $(\sum(4) - 11 * C(4)) / C(4)$

Service Credit 3 = (Number of Faults subject to penalty) * (Multiplier) * Penalty

Total Service Credit = Service Credit 1 + Service Credit 2 + Service Credit 3

Appendix 6

eircom LLU SLA Penalty Calculation Example

The following section provides an example calculation for the SLA. The example covers all activities for Provisioning Process Points and Fault Repair.

Service Level Summary for Provisioning Process Points

Account / Line Status Enquiry Example

Activity Number	Order Type	Performance Target	Total Orders Delivered	Orders Delivered Within Perf. Target	Actual Performance	Penalties	Total Days Late	Penalty Amount	Total Penalty	Note
1	DRL	98%	9	8	88.89%	1	10	12.7	127.00	
2	ULE	97%	241	232	96.27%	2	2	12.7	-	N/A - Minimum penalty rule

Standard Validations Timeframes

Activity Number	Order Type	Performance Target	Total Orders Delivered	Orders Delivered Within Perf. Target	Actual Performance	Penalties	Total Days Late	Penalty Amount	Total Penalty	Note
4	PU	98%	12	10	83.33%	2	2	12.7	-	N/A - Minimum penalty rule
5	PUI	98%	94	93	98.94%	1	1	12.7	-	N/A - Performance target met
6	PLS	98%	17	15	88.24%	2	4	12.7	-	N/A - Minimum penalty rule
7	PLB	98%	4	2	50.00%	2	2	12.7	-	N/A - Minimum penalty rule
8	CHP	98%	1	0	0.00%	1	1	12.7	-	N/A - Minimum penalty rule
9	PUS	98%	10	9	90.00%	1	10	12.7	127.00	
10	Convert	98%	10	9	90.00%	1	10	12.7	127.00	
11	PUG	98%	4	2	50.00%	2	10	12.7	127.00	

Standard Delivery Timeframes

Activity Number	Order Type	Performance Target	Total Orders Delivered	Orders Delivered Within Perf. Target	Actual Performance	Penalties	Total Days Late	Penalty Amount	Total Penalty	Note
12	PU	95%	10	9	90.00%	1	8	12.7	101.60	
13	PUI	95%	30	28	93.33%	1	1	12.7	-	N/A - Minimum penalty rule
14	PLS	95%	10	7	70.00%	3	9	12.7	114.30	
15	PLB	95%	2	1	50.00%	1	2	12.7	-	N/A - Minimum penalty rule
16	CHP	95%	5	4	80%	1	1	12.7	-	N/A - Minimum penalty rule
18	PUS	95%	1	0	0.00%	1	8	12.7	101.60	
19	PUG	95%	1	1	100.00%	-	0	12.7	-	

N/A - Minimum penalty rule

The SLA penalty regime is only valid for individual performance metrics where a minimum of €100 penalty has been incurred for a particular SLA activity in any given month per OAO.

Fault Repair Service Level Summary

Fault #	Days to Repair
01-79	1
80 – 130	2
131 – 161	3
162 – 172	4
173 - 174	5
175 - 176	6
177 - 180	7
181	8
182	9
183	10
184	11
185	12
186	13
187	14
188	15
189	16
190	17
191	18
192	19
193	20
194	21
195	22
196	23
197	24
198	25
199	26
200	27

	2,5,10 Repair SLA	3,6,11 Repair SLA
L1 - All tickets assessed inder SLA	200	200
L2 - All tickets closed after day 2 (3)	70	39
L3 - All tickets closed afer day 5 (6)	26	24
L4 - All tickets closed after day 10 (11)	17	16
L5 - L2 minus L3- all tickets closed on days 3-5 / 4-6	44	15
L6 - L3 minus L4 - all tickets closed on days 6-10 / 7-11	9	8
sum ticket days from list 4	323	312
sum ticket days form list 5	147	66
sum ticket days from list 6	67	66

2 Day Repair		3 Day Penalty	
Number of faults subject to Penalty	$L2-L1*(1-0.73)$		$L2-L1*(1-0.73)$
$L2-L1*(1-0.73)$	$70-200*(1-0.73)$		$39-200*(1-0.73)$
	16		-15
Penalty Days Multiplier	$((147-2*(44)+3*(9)+3*(17))/70)$	Penalty Days Multiplier	$(sum(5)-3*(L5)+3*(L6)+3*(L4))/L2$
$(Sum(5)-2*(L5)+3*(L6)+3*(L4))/L2$	1.957142857		2.384615385
Penalty	€125	Penalty	0
$(Number\ of\ faults\ subject\ to\ Penatly)*(Multiplier)*\ Penalty$		$(Number\ of\ faults\ subject\ to\ Penatly)*(Multiplier)*\ Penalty$	
5 Day Penalty		6 Day Penalty	
Number of faults subject to Penalty	$26-200*(1-0.92)$	Number of faults subject to Penalty	$24-200*(1-0.92)$
	10		8
Penalty Days Multiplier	$67-5*9+5*17/26$	Penalty Days Multiplier	$66-6*(8)+5*(16)/24$
	4.115384615		4.083333333
Penalty	€288	Penalty	€229
10 Day Penalty		11 Day Penalty	
Number of faults subject to Penalty	17	Number of faults subject to Penalty	16
Penalty Days Multiplier	$(323-10*17)/17$	Penalty Days Multiplier	$(312-11*16)/16$
	9.000		8.500
Penalty	€1,530	Penalty	€1,360