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Escalation procedure

(incl. CSL Program, TOP-Q discussion)

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Summary

Change h	story
101	19.05.04: 1.1 and 1.2 updated, revised PPM-point deduction und logistic changed
102	13.08.04: 1.2 updated; 1.3 and 1.2.2 logistic catalogue revised, 1.2.3 Purchasing criteria detailed description
103	8.9.04 1.1 and 4 updated. 1.2.3 corrected > 9% war < 9%
104	01.04.05: 1.2.1 and 1.2.3. changed
105	24.04.06: Sequence of chapters changed Editorial revision Escalation's procedure complete revision
106	Supplier evaluation revised (addition Qualification und Performance; criteria Project management, Status Audit + Certification and Status Escalation procedure added
107	07.08.09: Escalation procedure revised Supplier evaluation revised
108	26.10.09 Escalation procedure updated (action out of audits added)
109	20.08.10: CSL process added, Top-Q discussion added
110	17.02.12: Escalation procedure updated; Supplier evaluation Requalification added
111	17.01.13: Disruption updated, Requalification revised, packaging and documentation updated, project management updated, and failure codes added, point 5.2.7 Project management Bonus system added, arrangement updated; Technical Requalification into Qualification / Status Audit + Certification implemented
112	01.03.2017: Entire handbook revised, Supplier evaluation revised, and failure codes added, Top Worst Supplier added, wording changed
113	01.06.2017 Codes added and updated
114	01.09.2017 Codes updated
115	01.12.2018 Codes added

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116	01.11.2019 Supplier evaluation letter updated
117	01.07.2021 Entire handbook revised, adapted to new processes and responsibilities
118	01.01.2022 Changes to supplier evaluation; elimination of "AB" rating and adjustment of factors, Revision of Escalation Modell, deletion of Technical Requlification; Supplier Line Walks added
119	15.10.2022 Adjustments to the supplier evaluation; changes to the bonus system
120	25.03.2024 Changes in the referenced documents, Correction of spelling errors. Changes to the factors and new failure codes added.
121	07.11.2024 Changes in fault type of Supplier Line Walk

Source	Purchasing Brose Group / Supplier Quality
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Supplier management at Brose

1 INTRODUCTION

To achieve our customer's expectations and their company goals the Brose Group needs a worldwide supplier base which constantly holds its performance and qualification level at top level.

It is being measured by the continuous (monthly) Brose Supplier Evaluation.

In case the supplier does not reach the set goals/targets, actions within the **Brose Escalation procedure** will be applied.

In the chapters below you will find a short description of the Brose Supplier evaluation as well as the Escalation procedure.

2 SUPPLIER EVALUATION

As important partners of our organization our suppliers have an essential share on the success of Brose products. Therefore, an absolute support of our suppliers is necessary.

The Supplier evaluation is the instrument for showcasing supplier's fulfillment of set goals/targets. The evaluation consists of main criteria Performance and Qualification which include below shown criteria. The evaluation is based on notifications out of Brose plants, business divisions and central functions.

2.1 Overview

Performance

- Product quality
- Logistics performance

The performance is evaluated on group level on basis of fixed indicators (quality- and logistic notifications) that are determined out of the deliveries to the plants.

Qualification

- Purchasing evaluation
- Project management/-performance
- Status of certification and/or Brose-Audits
- Escalation level in Brose Escalation procedure

The qualification is evaluated on group level.



Ratings are given according to this table:

Points	Rating
100 - 90	А
89 - 60	В
59 - 0	С

For each main criterion 100 points are being given if there are no disruptions (incidents)/notifications. Possible point deductions are described in the failure catalog overview below.

For the overall evaluation, all relevant notifications out of the evaluation time are being considered.

The overall evaluation goes into following score/rating and following activities are being required:

A (rated)-Suppliers

Supplier meets our requirements. This result is essential for a long-standing working relationship.

B- Suppliers

The result that the supplier has reached/scored does no longer meet Brose requirements. In addition to the expected 8D reports on each individual case, the suppliers create a special action plan (to improve to an A rating) and make it available on request.

A B-rating over an extended period may result in an invitation of the top QU-Incident drivers into a Quality-Improvement-Program lead by the Business Division Supplier Quality.

C- Suppliers

The result that the supplier has reached/scored is for Brose not acceptable. If the suppliers have not yet been asked to provide a special action plan to recover an A rating – (in addition to the expected 8D reports on each individual case), these suppliers send the special action plan to all coordinators of the complaints.

As part of our C supplier management, we decide on further cooperation with your company.

The following consequences may arise for your company:

- Measures for joint supplier development
- Temporary suspension of new orders (Business on Hold) pending a stable quality/logistics improvement
- Termination of business relations

Brose expects a fast and effective implementation of measures in coordination with our company since this C rating endangers the continuation of our business relationship.



Performance of supply to individual plants

The evaluation of the quality performance of the deliveries to each individual Brose plant occurs on basis of the fixed indicators (incidents and ppm). As additional performance indicator ppm is considered.

Requalification

Requalification is a main part to secure product quality with the aim of further reduction on supplier related incidents and has therefore particularly influence on the further reduction of internal and external failure costs. Requalification is part of the IATF 16949. Brose reserves the right to request evidence of the requalification carried out. Upon request, the supplier shall provide the evidence within 24 hours.

Self-assessment CQI-xx and D-parts (Brose requirement)

For all relevant processes that are defined in the feasibility study all relevant self-assessments (CQI-xx and D-parts) must be uploaded unasked under Brose Homepage/Purchasing/Certificate management/Upload Form every 12 months. If the documents are not sent in due time, there will be a negative influence (deduction of 11 points in the supplier evaluation) on the supplier evaluation. Independent of customer requirements both CQI-xx (AIAG-CQI-standards) and D-part self-assessment are a requirement of the whole supply chain.

Relativization-coefficient

Due to partly deliveries by logistic service providers in Kanban-lots there was introduced a relativisation-coefficient for balance.



2.2 Failure catalogs

2.2.1 Quality

The criteria Quality consists of points for incidents/disruptions (100 points).

Performance:

	Weighting	Deduction/ Notification
No supplier responsibility, self-notification	blank	0
Additional debit	blank	0
Single complaint	1	5
Failure or root cause repeated on similar parts	2	11
Brose-TOP-Management or Customer Management involved	3	21
Potential safety or recall relevant topic	4	41

PPM- values are being determined out of the delivered amount and the 'failure amount – ppm' in the SAP notification. PPM-values do not affect the supplier evaluation. PPM-values together with incidents/disruptions are being used to determine necessary corrective actions.

For standardized recording of the ppm-relevant amounts there is a list of 'rules' for admittance of defective parts into the ppm evaluation of suppliers defined. (See appendix 1).



Qualification:

The Quality of the documents submitted by the supplier to Brose and the accessibility and the working together with Brose can influence the supplier evaluation negatively. Especially the quality of the 8D reports submitted to Brose will be assessed and evaluated.

General Quality failure	Factor	Deduction
Poor availability of Supplier		
Translation effort	1	4
	2	11
Intensive work to obtain information	3 4	21 41
Non reliable information	·	
Poor problem-solving competency / Insufficient 8-D report	1	4
	2	
	3	11
	4	

Requalifikation:

If it is determined that the supplier has deviations or no requalification system, the following deduction is made in the supplier rating:

Fault	Factor	Deduction
	1	11
Deviation at requalification	2	11
	3	21
	4	41
Requalification sent too late		11
Requalification not performed		21
No system for requalification available		41



2.2.2 Logistics

Delivery reliability	
Event-description	Deduction
Mispick ESP (supplier)	2
Mispick ESP (external service-provider)	2
Transport fault (deduction supplier)	4
Critical arrear without delinformation	3
Missing part: replan. assembly, no SPT	10
Missing part: replan. assembly, with SPT	14
Missing part: line-stop Brose, no SPT	16
Missing part: line-stop Brose, with SPT	20
Missing part: line-stop at customer	70
Exceeded delivery, high stock increase	4
Delivery outside defined time-slot	4
Pick-up outside defined time-slot	4
Late advise of transport requirement	4
Incorr. advise of transport requirement	4
One incident is related to one material (ID-No.) and one call off or minimum stock	

Service	
Fault	Deduction
Poor accessibility contact	2
Translation efforts	2
Intensive work to obtain information	4
Non-reliable information	4
Error container-booking	4
Inflexible for allowances / Change Brose	4
Insufficient cargo securing	4
One incident is related to one process (e.g., e- mail about several ID- No.	
which is not answered completely or partly)	

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Packaging and documentation	
Fault	Deduction
Wrong / deficient packaging	2
Wrong labels / mixed materials	4
Missing / wrong delivery documents	4
Missing identification of dangerous mat.	2
Missing or wrong content	6
No environmentally friendly packaging	4
Customer-item number is missing on the d	4
Change index on delivery note is missing	4
Incorrect Avis	4
Incorrect ASN	4
One incident is related to one delivery (delivery note/Invoice)	

2.2.3 Purchasing

Fault	Description	Factor	Deduction
Competitiveness/ Costs	< 3% less competitive		0
	< 5% less competitive	1	10
	≥ 5% less competitive	2	20
Commercial responsiveness	On time		0
	Delayed response/ after request only	1	10
	Not according to requirements	2	20
Cost transparency	Complete cost-break-down (A- and B- price)		0
	cost-break-down not complete	1	15
	Total price	2	20
Contract acceptance	Necessary contractual requirements are met		0
	Necessary contractual requirements are met partly or	1	10
	are not met	2	20
	No negotiation willingness or no conclusion	3	30

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2.2.4 **Project Management**

Fault	Description	Deduction
Attitude at quotation	quotations completeprices are plausiblecompetitivenessuse of Brose forms/ Brofis	5
Technical dialog	- FS / Feasibility studies - Quality of FS - Technical support / engineering support	5
Commercial dialog	 Willingness for negotiation Propose and realise cost reduction potentials self- contained 	5
Adherence to dates	 quotations Prototypes / samples / Initial samples Project documents (FS / Control plans / Dimensional measurement reports / etc.) 	5
Quality of parts	 Prototypes / Samples / Initial samples Number of AWEs and drawing changes (during launch) 	10
Quality of documents	quotationFSdimensional reportstool data sheet	10
General performance of supplier	 Project management system is existing Preparation of meetings Availability active communication Presence / Customer care Flexibility / Reaction time Adherence to consents and agreements 	5
Deviation (AWE) caused by supplier	- Deviation is caused by the supplier	10
Drawing update caused by supplier	- Drawing update caused by supplier	10
Noncompliance to FS	- FS commitments are not kept by supplier	10
Full-Run-Test - result: yellow	- Result of Full Run Test: yellow	10
Full-Run-Test - result: red	- Result of Full Run Test: red	21
No entry in IMDS	- Material data are not entered in the IMDS	5
IMDS entry faulty	- Material data are entered incorrectly in the IMDS	5

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2.2.5 Project Management Bonus system

Bonus	Bonus Description / Condition		Bonus
Innovation performance supplier	- 1 – 3 submitted Innovation-Input - first evaluation is done - Input entered in Hype	1	5
	- 1 Innovation-Input passed 1st Innogate (Idea release)	2	10
	- 1 Innovation-Input passed 4th Innogate (predevelopment release)	3	15
Training program	Participate in problem-based training to improve supplier performance. (Not for suppliers with escalation status).	1	10

2.2.6 Status Audit, Supplier Line Walks, Certification

Process audit

If Brose carries out a process audit, the result will influence the qualification directly according to this table:

Audit result	Deduction
'A' or 'B'	0
Insufficient progress in processing corrective actions	21
'C' or failed D-part audit	41

A 'C' rated process audit can lead to a 'New Business on Hold' (BSHD) classification. Brose reserves the right to invoice the supplier for the costs incurred for the post-audit after completion of the measures from the 'C' rated process audit.



Supplier-Line-Walk

If Brose carries out a Supplier-Line-Walk, the result has a direct influence on the 'Qualification' in the supplier evaluation according to the following table:

Code*	Audit result	Deduction	Evaluated Time span
-	"green" or "yellow"	0	
5910	Insufficient progress in processing corrective actions	21	Deduction by L1-
5970	Result red → from 13 question yellow	21	notifications as long as
5980	Result red → from 1 question red	41	claim is open.

Status of certification

Suppliers' status of certification will directly influence the 'Qualification' according to this table:

Status of certification	Deduction
Certificate expired and no reaction to the requisition of the certificates	41



Continuous Self-assessment

For all relevant processes that are defined in the feasibility study all relevant self-assessments (CQI-xx and D-parts) must be uploaded unasked under <u>Brose Homepage/Purchasing/Certificate management/Upload Form</u> every 12 months. If the documents are not sent in due time, there will be a negative influence (deduction of 11 points in the supplier evaluation) on the supplier evaluation. Independent of customer requirements both CQI-xx (AIAG-CQI-standards) and D-part self-assessment are a requirement of the whole supply chain.

Status of certification	Deduction
Self-assessment not valid	11

2.2.7 Influence of escalation level

In the case, a supplier gets on one of the escalation levels of the Brose escalation system caused by ongoing problems there will be an influence on the Supplier evaluation according to this table:

Escalation level	Deduction
'1'	11
′2′	21
'3 BSHD '	41

If a supplier is in an escalation level for a period of 6 months, it can be escalated to the next higher level and lead to a 'New Business on Hold' (BSHD) from level 2.

2.2.8 Influence of escalation level CSL

In the case, a supplier gets on one of the CSL-levels of the Brose escalation system caused by repeated failure, escalated product topics or escalated supplier development programs there will be an influence on the Supplier evaluation according to this table:

CSL levels	Deduction
'1'	11
′2′	21
′3′	41

2.3 Transmission to suppliers

The monthly evaluation to the suppliers is transmitted automatically via email.

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3 BROSE ESCALATION PROCEDURE

To guarantee a no viscous production and project process and to recognize problems early, Brose applies the following escalation procedure. This process enables it, in case of interferences, which are caused by the supplier, to define uniform appropriate countermeasure and to ensure their eradication.

Brose differs two phases here:

- Project phase (Development and implementation phase)
- Series phase

In every step of the escalation procedure appropriate actions are defined, which must be fulfilled within a stipulated period. By default, of the stipulated actions the escalation is continued in the next higher step, up to the partial dislocation or the completely reduction of the supplier.

Within the scope of the escalation procedure, necessary benefits by Brose or its commissioner are invoiced to the supplier.

In case of stoppage, the supplier gets the status 'New Business on hold'.

'New Business on hold' means for the supplier, that he gets for the period of the stoppage

- no inquiries as well as
- no new orders of Brose.

Other laws, which are entitled to Brose after the contractual agreements or the agreed law, apply to this escalation procedure additional and remain unaffected.

Top Worst Supplier Plants

The Top 5 Worst Suppliers at plant level are based on the data from QORS evaluation. The selection of suppliers is based on delivered product quality and logistic performance, since these two indicators show a direct impact of a supplier towards a Brose plant.

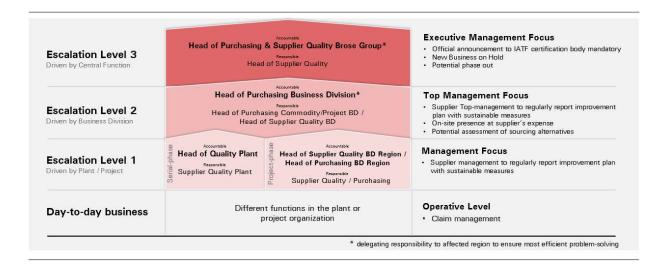
The quality manager in the respective plant can decide whether or which supplier he wants to invite for an escalation meeting.



Schematic representation of the escalation procedure in the project and series phase

Brose Escalation Process - Purchasing & Supplier Quality Escalation Level





Brose Escalation Process – Purchasing & Supplier Quality Typical Triggers for Escalation Level (examples)



Escalation Level 3 Escalation Level 2 Escalation Level 1 High level of complaints with impact High level of complaints with impact · Supplier management not committed on Brose on Brose's customer or not capable to fulfill previously agreed improvement plans Unauthorized product or process Unauthorized product or process change with impact on Brose change with impact on Brose's Exit criteria ESC Level 2 not met APQP fulfillment delayed, impact on APOP fulfillment delayed with impact Brose milestones on customer milestones Cost settlement non-cooperation Exit criteria ESC Level 1 not met Inadequate response or insufficient after 6 months collaboration Official Notification to Supplier with ESC-Status-Letter about Escalation Level & clearly defined Exit Criteria

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4 CSL ('controlled shipping level ') PROGRAM

Within the scope of the escalation procedure the Brose group leaves the possibility open to convene a CSL program by repeated mistakes, escalated product themes or escalated supplier development themes. Following steps of the CSL program are possible:

CSL1:

The supplier investigates to 100% the postulated characteristics about a certain period/ for a postulated quantity or if the countermeasure is effective by the supplier. The eradication is carried out within the scope of the complaint eradication in the plant.

Here it is decided on the CSL1 status. Deduction of 11 points in the supplier evaluation for the duration of the CSL1 program.

CSL2:

An independent third party investigates the postulated characteristics about a certain period/ for a postulated quantity or if the countermeasure is effective by the supplier. The effectiveness of the actions must be confirmed from Brose. Deduction of 21 points in the supplier evaluation for the duration of the CSL 2 program.

CSL3:

To the actions of CSL2 a supplier development program of an independent third party is executed additional. The ranges, in which the supplier development take place, are defined in the 'Kick Off Meeting'. The effectiveness of the actions (of the supplier development program) must be confirmed from Brose. Deduction of 41 points in the supplier evaluation for the duration of the CSL 2 program.

5 TOP-Q DISCUSSION

On e.g., not successful CSL-programs, escalated single themes (in the series as well as in the project phase), permanent insufficient performance Top-Q discussion with the supplier take place. Here the executive vice-president of the supplier is invited, possibly short-term too, to a TOP-Q discussion. To this discussion Brose expects a meaningful action plan, that contains the short-term immediate measure as well as the premeditated actions for a sustainable storage.



6 ATTACHMENT 1

Rules for recording defective parts in suppliers' ppm evaluations

1. Accun	nulated rejection parts/complaints:	PPM-Bewertung:
a)	Parts accepted by supplier:	100%
b)	Parts rejected by supplier:	0%
c)	No feedback after 10 WD ^{x1} processing time ^{x2} :	100%
d)	Supplier proves customer error within 30 WD x1 processing timex2, that the failure is not in the responsibility of the supplier	Korrektur möglich
e)	After 30 WD x1 processing timex2	Korrektur nicht möglich
2. Incide	nts at Brose:	
2.1. Rep	orted by supplier:	
a)	Parts failed on assembly line prior supplier report:	100%
b)	Defective parts which have to be assembled before the supplier can sort (caused by supply bottleneck):	100%
c)	All other parts:	0%
2.2. Seri	es production fault discovered by Brose x3:	
a)	Parts failed on assembly line prior to series production fault discovered x3:	100%
b)	Defective parts which have to be assembled before the supplier can sort (caused by supply bottleneck):	100%
c)	Defective parts at Brose's end:	100%
d)	Stocks replaced (returned) for sorting by supplier:	0%
e)	All other parts	0%
2.3. Wro	ng deliveries	
a)	Wrong deliveries which will not affect the production process are merely evaluated as incidents in logistics terms:	0%
b)	All other wrong deliveries are treated as defective parts:	siehe 2.1 oder 2.2
3. Incide	nts at the customer:	
fault ×3	s have already reached the Customer when a series production is discovered or the supplier reports one, the Customer and Brose er with the supplier must decide on the required action.	
a)	Defective parts replaced or found by sorting:	100%
		İ

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b)	ppm-relevant quantities which customer charges to Brose are passed on to supplier:	100%
c)	All other parts:	0%

Explanatory notes:

^{x1}) WD:

working days

x2) Processing time:

Processing time runs from the date on which defective parts are physically accepted from the supplier. The date of acceptance is taken as:

- a) The date on which goods are received at the supplier if parts sent by Brose.
- b) The date on which the supplier accepts parts at Brose.
- x3) Discovery of series production fault:

A series production fault applies at the latest under the conditions below:

- a) 25 parts fail in succession, or
- b) Maximum 1% failure rate is exceeded during a production shift.

Furthermore, a series defect can be detected by incoming goods inspection (QC), Brose Group Quality (ZQU) or Electronics Quality (EQU).

7 TERMS AND APPREVIATIONS

8D-Procedure: Problem solving method in 8 steps, which is being used as a standard method and

reporting form

ppm parts per million

FS: Feasibility Study, former QVP

FRT: Full Run Test
AWE: Deviation request