



# ASAM

Association for Standardisation of  
Automation and Measuring Systems

---

## **ASAM AE Issue**

### **User's Guide**

Version 3.2.0

Date: 2017-02-03

**Disclaimer**

This document is the copyrighted property of ASAM e.V.  
Any use is limited to the scope described in the license terms. The license terms can be viewed at [www.asam.net/license](http://www.asam.net/license)

**Table of Contents**

<b>Foreword</b>	<b>8</b>
<b>1 Introduction</b>	<b>9</b>
<b>2 Issue Exchange Workflow</b>	<b>10</b>
2.1 Issue Initiation .....	10
2.2 Issue Evaluation .....	11
2.3 Issue Specification .....	12
2.4 Issue Implementation .....	13
2.5 Issue Finalization .....	14
<b>3 Issue Exchange Messages</b>	<b>16</b>
3.1 Message Type: PROPOSED .....	16
3.2 Message Type: REQUESTED .....	18
3.3 Message Type: RECEIVED .....	20
3.4 Message Type: ACCEPTED .....	23
3.5 Message Type: REJECTED .....	26
3.6 Message Type: ESTIMATED .....	29
3.7 Message Type: SPECIFIED .....	32
3.8 Message Type: APPROVED .....	35
3.9 Message Type: DELIVERED .....	38
3.10 Message Type: CLOSED-OK .....	41
3.11 Message Type: CLOSED-NOT-OK .....	44
3.12 Message Type: CANCELED .....	48
3.13 Message Type: INFORMATIONAL-UPDATE .....	50
<b>4 Acknowledgment of Issue Exchange Messages</b>	<b>53</b>
<b>5 General Issues</b>	<b>54</b>
5.1 Naming Conventions .....	54
5.2 Common elements .....	54
5.2.1 SHORT-NAME .....	54
5.2.2 Basic attributes .....	54
5.2.3 Usage of the attribute SI .....	55
5.3 Linking .....	55

---

5.3.1	References .....	55
5.3.2	Linking with SHORT-NAMES .....	55
5.3.3	Linking with ID/IDREF .....	56
<b>5.4</b>	<b>Content filtering .....</b>	<b>57</b>
<b>5.5</b>	<b>XML processing remarks .....</b>	<b>58</b>
5.5.1	Whitespace handling .....	58
5.5.2	Encoding .....	58
5.5.3	Default Namespace .....	58
<b>6</b>	<b>ISSUE XML Structure Reference .....</b>	<b>59</b>
6.1	ABS .....	59
6.2	ADDRESS .....	59
6.3	ADMIN-DATA .....	60
6.4	AMOUNT .....	60
6.5	ANNOTATION-RELATED-DOCUMENT .....	61
6.6	ANNOTATION-RELATED-DOCUMENTS .....	61
6.7	ANNOTATION-TEXT .....	62
6.8	CATEGORY .....	63
6.9	CITY .....	63
6.10	COMPANY-DATA .....	64
6.11	COMPANY-DATA-REF .....	65
6.12	COMPANY-DATAS .....	67
6.13	COMPANY-ISSUE-INFO .....	68
6.14	COMPANY-ISSUE-INFOS .....	69
6.15	COND .....	69
6.16	CONTENT .....	70
6.17	COST-DETAIL .....	70
6.18	COST-DETAILS .....	71
6.19	COST-SHARE .....	72
6.20	COST-SHARES .....	73
6.21	DATE .....	73
6.22	DELIVERY-MILESTONE .....	74
6.23	DELIVERY-MILESTONES .....	75
6.24	DEPARTMENT .....	75
6.25	DESC .....	75
6.26	DOC-REVISION .....	76
6.27	DOC-REVISIONS .....	76
6.28	DOMAIN .....	77

<b>6.29 EFFORT-DETAIL</b>	<b>77</b>
<b>6.30 EFFORT-DETAILS</b>	<b>78</b>
<b>6.31 EFFORT-SHARE</b>	<b>79</b>
<b>6.32 EFFORT-SHARES</b>	<b>80</b>
<b>6.33 EMAIL</b>	<b>81</b>
<b>6.34 ENGINEERING-OBJECT</b>	<b>81</b>
<b>6.35 ENGINEERING-OBJECTS</b>	<b>82</b>
<b>6.36 FAX</b>	<b>83</b>
<b>6.37 HOMEPAGE</b>	<b>84</b>
<b>6.38 ISSUE</b>	<b>84</b>
<b>6.39 ISSUE-ANNOTATION</b>	<b>86</b>
<b>6.40 ISSUE-ANNOTATIONS</b>	<b>86</b>
<b>6.41 ISSUE-COST</b>	<b>87</b>
<b>6.42 ISSUE-CURRENT-STATE</b>	<b>88</b>
<b>6.43 ISSUE-DESC</b>	<b>89</b>
<b>6.44 ISSUE-EFFORT</b>	<b>89</b>
<b>6.45 ISSUE-ENVIRONMENT</b>	<b>90</b>
<b>6.46 ISSUE-HISTORY-STATE</b>	<b>91</b>
<b>6.47 ISSUE-HISTORY-STATES</b>	<b>91</b>
<b>6.48 ISSUE-ID</b>	<b>92</b>
<b>6.49 ISSUE-INITIATOR</b>	<b>92</b>
<b>6.50 ISSUE-PRIORITY</b>	<b>93</b>
<b>6.51 ISSUE-PROPERTIES</b>	<b>93</b>
<b>6.52 ISSUE-REF</b>	<b>95</b>
<b>6.53 ISSUE-RELATED-DOCUMENT</b>	<b>96</b>
<b>6.54 ISSUE-RELATED-DOCUMENTS</b>	<b>97</b>
<b>6.55 ISSUE-RELATION</b>	<b>98</b>
<b>6.56 ISSUE-SEVERITY</b>	<b>99</b>
<b>6.57 ISSUE-SOLUTION</b>	<b>99</b>
<b>6.58 ISSUE-SOLUTION-DESC</b>	<b>100</b>
<b>6.59 ISSUE-SOLUTIONS</b>	<b>101</b>
<b>6.60 ISSUE-STATE</b>	<b>101</b>
<b>6.61 ISSUES</b>	<b>102</b>
<b>6.62 LABEL</b>	<b>103</b>
<b>6.63 LONG-NAME</b>	<b>103</b>
<b>6.64 MATCHING-DCI</b>	<b>104</b>

<b>6.65 MATCHING-DCIS</b>	<b>104</b>
<b>6.66 MAX</b>	<b>105</b>
<b>6.67 MIN</b>	<b>106</b>
<b>6.68 MSR-ISSUE</b>	<b>106</b>
<b>6.69 MSR-PROCESSING-LOG</b>	<b>108</b>
<b>6.70 P</b>	<b>109</b>
<b>6.71 PERCENTAGE</b>	<b>110</b>
<b>6.72 PHASE</b>	<b>111</b>
<b>6.73 PHONE</b>	<b>111</b>
<b>6.74 PRM</b>	<b>111</b>
<b>6.75 PRM-CHAR</b>	<b>113</b>
<b>6.76 PRM-UNIT</b>	<b>113</b>
<b>6.77 PRMS</b>	<b>114</b>
<b>6.78 PROJECT-ID</b>	<b>115</b>
<b>6.79 RELATED-ISSUE</b>	<b>115</b>
<b>6.80 RELATED-ISSUES</b>	<b>116</b>
<b>6.81 REMARK</b>	<b>117</b>
<b>6.82 REPRODUCIBILITY</b>	<b>117</b>
<b>6.83 REVISION-LABEL</b>	<b>118</b>
<b>6.84 REVISION-LABELS</b>	<b>118</b>
<b>6.85 ROLE</b>	<b>119</b>
<b>6.86 ROLES</b>	<b>119</b>
<b>6.87 SD</b>	<b>120</b>
<b>6.88 SDG</b>	<b>121</b>
<b>6.89 SDG-CAPTION</b>	<b>122</b>
<b>6.90 SDGS</b>	<b>123</b>
<b>6.91 SHORT-LABEL</b>	<b>124</b>
<b>6.92 SHORT-NAME</b>	<b>124</b>
<b>6.93 TEAM-MEMBER</b>	<b>125</b>
<b>6.94 TEAM-MEMBER-REF</b>	<b>126</b>
<b>6.95 TEAM-MEMBERS</b>	<b>127</b>
<b>6.96 TEXT</b>	<b>128</b>
<b>6.97 TOL</b>	<b>129</b>
<b>6.98 TRANSACTION-ID</b>	<b>129</b>
<b>6.99 TYP</b>	<b>130</b>
<b>6.100UNIT</b>	<b>130</b>

<b>6.101 URL</b>	<b>131</b>
<b>6.102 VERBATIM</b>	<b>131</b>
<b>6.103 ZIP</b>	<b>133</b>

## **Bibliography**

<b>List of Figures</b>	<b>135</b>
------------------------	------------

<b>List of Tables</b>	<b>136</b>
-----------------------	------------

## Foreword

This document describes the issue exchange XML format ISSUE (formerly MSR ISSUE). It is used to describe single or groups of issues out of issue management and tracking systems. The main purpose of this format is the exchange of issues between development partners and their issue management and tracking systems.