

## Fragebogen zur Bekanntmachung einer Mitfluggelegenheit für den Demonstrationsflug des *Spectrum* Microlauncher

CONTACT DATA									
Responsible Contact Person		Represented Institution							
Full Name		Name							
Role/Function		Address							
Mail									
Phone		Country							
SATELLITE									
Physical Properties		Composition							
Dry Mass [kg]		Number of Satellites							
Wet Mass [kg]		Adapter, Separation and Dispenser Type/Name							
CoG pos. wrt. S/C separation plane		Adapter, Separation and Dispenser Mass [kg]							
Dimension excl. Protrusion [m]		Mechanical Properties <sup>1</sup>							
Protrusion position and dimension [m]		Long. modes frequencies ( $\leq 125$ Hz) and relevant participating mass [%]							
Thermal Characteristics		Lateral modes frequencies ( $\leq 125$ Hz) and relevant participating mass [%]							
Total power generated [W]	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 25%;">Min.</th> <th style="width: 25%;">Nominal</th> <th style="width: 25%;">Max.</th> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> </table>	Min.	Nominal	Max.				Propulsion	
Min.	Nominal	Max.							
Critical Temperatures [K]	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 25%;">Min.</th> <th style="width: 25%;">Nominal</th> <th style="width: 25%;">Max.</th> </tr> <tr> <td style="height: 20px;"></td> <td></td> <td></td> </tr> </table>	Min.	Nominal	Max.				Propellant [Y/N]	
Min.	Nominal	Max.							
Electrical Interfaces		Propellant Identification							
Number of electrical links EGSE		Density of Liquid [kg/m <sup>3</sup> ]							
Number of electrical links launcher		Volume of Tank [l]							
RF interface Requirements		Fill Factor [%]							
Separation		Liquid/Solid Volume [l]							
Preferred Separation System Concept		Liquid Mass [kg]							
Pref. separation directions wrt. S/C ref. frame		Pressurant Identification (if applicable)							
Preferred separation orientation constraints		MEOP							
Separation constraints		Electromagnetic Compatibility							
Req. visibility, duration for commissioning [s]		In Flight EM Environment							
Max. angular rate and $\Delta V$ range		On Ground EM Environment							

<sup>1</sup> Please add range as well as uncertainties in the form **range [uncertainties]**

MISSION			
Mission Description		Milestone Planning	
Mission Name			
Mission Executive Summary			
Primary Objectives			
Secondary Objectives			
User(s) / Customer(s)			
Payload Type <small>(e.g. optical sensor, accelerometer)</small>			
Attitude Control Concept <small>(e.g. uncontrolled, nadir pointing)</small>			
Mission Lifetime [years]			
Planned Launch Date			
Launch Window			
Mission Specific Constraints <small>(e.g. solar aspect angle, etc.)</small>		<b>S/C sketch in stowed State incl. Reference Frame</b> <small>(image as .jpg, .png)</small>	
ORBITAL PARAMETERS <sup>2</sup>			
Type of Orbit		Apogee <sup>1</sup> [km]	
RAAN <sup>1</sup> [degree]		Perigee <sup>1</sup> [km]	
LTAN <sup>1</sup> [degree]		Arg. of Perigee <sup>1</sup> [degree]	
Inclination <sup>1</sup> [degree]		Eccentricity <sup>1</sup>	
Assembly / Verification		Miscellaneous	
Level of Cleanliness and Contamination		Ground Station Network Requirements	
Accessibility Requirements and Constraints		Launch Campaign Requirements	

<sup>1</sup> Please provide desired target as well as acceptable range in the form **target value [acceptable range]**

<sup>2</sup> The payload will be provided a rideshare opportunity and is therefore constrained to the initially determined target orbit of the launch provider. Please provide information on the final orbit to be achieved for the mission.

**Note:** Currently unknown parameters and specifications are to be specified as TBD. For further information, please contact the following email address: [mikrolauncher.payload@dlr.de](mailto:mikrolauncher.payload@dlr.de).