

Doc. ID:	D00267712	Version:	10	Agile Project ID:	P004164
Title:	MRS D-Chipset App				

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WIDEX ALLURE

1.4.0

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History

Version	Date	Author / department	Modification and Reason/ Change Request
1	2023-01-25	Karsten Mortensen MKT	Initial release.
2	2023-03-08	Karsten Mortensen MKT	<p>Changed the Release version number from 1.0.0 to 1.1.0 on the following MRSs:</p> <p>MRS102143, MRS102144, MRS102235, MRS102236, MRS102239, MRS102240, MRS102243, MRS102257, MRS102443, MRS102461, MRS102467, MRS102468, MRS102469, MRS102472, MRS102236</p> <p>Updated Document IDs in chapter "References"</p>
3	2023-14-11	Teresa Maria Clausen-Gallo	<p>Terminated 141449 WidexTerminated .</p> <p>Added new requirement 170880 Change programReleased .</p> <p>Added new cluster 170882 SettingsReady for Review including 3 new requirements within it.</p> <p>These changes are made on behalf of Karsten Mortensen and is pending his review and approval.</p>
	2023-28-11	Teresa Maria Clausen-Gallo	<p>Reworded 141457 App connection speed requirementReady for Review and changed Valid From to 1.1.0.</p> <p>Changed Valid From to 1.1.0 for 141458 App responsiveness</p>

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			requirement Released. These changes are made on behalf of Karsten Mortensen and is pending his review and approval.
	28-11-2023	Karsten Mortensen	Approved changes in version 0.3 and 0.4 and changed state to Released. Document ready for release of Widex App version 1.0.0.
	05-01-2024	Teresa Maria Clausen-Gallo	Updated 141454 IOS version supported Released as agreed with Karsten Mortensen.
4	09-01-2024	Teresa Maria Clausen-Gallo	Changed 141433 Demo version of App Released to Valid From 1.1.0 as this was requested from MKT but not reflected in documentation.
5	27-03-2024	Teresa Maria Clausen-Gallo	Added requirements that went missing after cloning: 256812 Personalize sound using AI Ready for Review 256817 Onboarding users Ready for Review 256833 Information about accessories Ready for Review 256835 Help and troubleshooting Ready for Review 256818 Adjust settings in hearing aids Ready for Review Removed linking to obsolete clusters: 141445 Support Audiology Story Released 141448 Brands Released

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6	24-06-2024	Teresa Maria Clausen-Gallo R&D SW B2C CLS	Document ready for release of version 1.1.0 after setting 141395 MRS D-Chipset App Released to Released.
7	19-11-2024	Teresa Maria Clausen-Gallo R&D SW B2C CLS	As requested from MKT, demo mode should not be valid from version 1.1.0. Requirement Work item 141433 changed from Valid From 1.1.0 to N/A.
			Created new requirement 393729 In-app survey Created and set it Ready for review.
			Set Valid From to 1.2.0 and set State to Released: Work item 141433 Created new requirement and set it to ready for review: Work item 405426
			405426 Adjust directionality Ready for Review approved by MKT/Karsten Mortensen and status set to Released. Document finalized for app version 1.2.0. Implemented changes according to review comments. Document ready for app version 1.2.0.
8	11-12-2024	Teresa Maria Clausen-Gallo R&D SW B2C CLS	Updated 141455 Android version supported Released from supporting Android OS 9 and higher to supporting Android OS 10 and higher.
9	15-04-2025	Rounak Kumar R&D SW B2C MSO	added #425705 for version 1.3
10	02-12-2025	Rounak Kumar	Updated MRS102485 version for 1.4

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		R&D SW B2C MSO	
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Document Management

This section contains technical settings and elements to support document management.

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DoXter Template	MRS 10a.1

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1 INTRODUCTION

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Widex Allure is the Daily Use App for the Allure family of hearing aids and belonging devices. D-Chipset App is the project name for the app used in R&D at startup of the project - when no Commercial name was available. The D-chipset app will contain features and functionalities similar to that of the Widex Moment App plus a range of changed usage flows and new features. The high-level features and functionalities are:

- Hearing aid control
- Sound personalization incl. Artificial Intelligence
- Audio streaming control
- Help and troubleshooting
- Pairing and connection
- Hearing aid firmware upgrade
- App appearance

D-chipset App will also be updated to 100% support the visual identity of the Widex brand.

1.1 Purpose

627209 - 4

This document specifies the market requirements (including the user needs) for the product named **Widex Allure**

based on the product-specific **intended purpose / (use)** and **use specification** (see [2]) and as such gives input to the R&D development process as described in [1].

This document is generated from Azure DevOps, in which work items are created to document user needs and requirement. Below is a guide to how to read the item headers (left-right):

1. The Azure DevOps work item ID and the revision of the work item
2. The unique work item PID for the work item
3. When the requirement is valid from* and valid to**
4. State of work item

*Valid From: Attribute in the requirement work item referring to which version of the software the given requirement is valid from. If "N/A" is applied, it means that the version of the software in which the requirement should be valid from is yet to be determined.

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**Valid To: Attribute in requirement work item referring to which version of the software the given requirement is valid to. If "Forever" is applied, it means that it will be applicable for all future releases of the software.

1.2 References

627208 - 4

- [1] GLOBAL_SOP_QM_014 - Design and Development Process
- [2] D00267727 - Intended Purpose
- [3] D00006583 - SW Glossary
- [4] D00267725 - PDP
- [5] D00285389 - Usability File
- [6] D00082326 - Post Market Surveillance Report
- [7] D00187529 - Periodic Safety Update Report (PSUR)
- [8] D00207187 - Post Market Surveillance Data Review File

1.3 Definition & Abbreviations

627210 - 4

- HA - Hearing Aid
- BLE - Bluetooth Low Energy
- BT - Bluetooth
- HCP - Hearing Care Professional
- OS - Operating System
- RF - Radio Frequency
- WAA - Widex Allure App - Commercial name for the project name D-chipset App

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2 POSITIONING

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The D-chipset app is for the Widex brand positioned in the market as a Premium App as part of the premium solutions offered by Widex.

2.1 Business Opportunity

627207 - 6

The D-chipset app is an optional accessory for hearing aids used by hearing aid wearers. However, neither today nor in the future we intend to sell the D-chipset app as a separate product. Our consumer expect the D-chipset app free of charge. This is a common practice in the hearing aid business worldwide.

Nevertheless, the goal is to offer an app with optimal user support and excellent design which our consumers prefer using compared to our competitors' app. Thereby, we may potentially help to increase sales of our hearing aids.

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3 Post Market Surveillance Inputs

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After having been released to the market, the performance of Allure App will be monitored via several sources and means, e.g.

- NPS surveys
- Usage of collected crash logs, data and statistics
- Bug and incident tracking
- Feedback, input and requests from market representatives and first level support
- Post Market Surveillance Report(see 6)
- Post Market Surveillance Data Review File (see 8)
- Periodic Safety Update Report (PSUR) (see 7)

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4 STAKEHOLDER AND USER DESCRIPTIONS

627206 - 6

4.1 User groups

627211 - 5

See “Intended Purpose / (Use) and Use specification” [2].

4.2 Use environment

627213 - 5

See “Intended Purpose / (Use) and Use specification” [2].

4.3 Market Demographics

627212 - 5

The D-chipset app is available in most countries worldwide. Key markets are North America, Europe and Japan. Target users of the D-chipset app are consumers wearing WSA hearing aids.

4.4 Stakeholder summary

627217 - 5

- Audiologists
 - Developers and Implementers of audiological features
 - Internal Audiologists check the feasibility of required audiological features and are also responsible for the specification of those features. In live tests with hearing impaired persons they optimize the audiological performance.
- Representatives of local markets
 - Know the customer needs of local markets and know market-specific regulations
 - Market representatives provide information on market specific needs
- Representatives of WSA brands
 - Collect and describe the general requirements and needs of one or more WSA brand
 - Market representatives provide information on brand specific needs
- Representatives of key accounts
 - Collect and describe the general requirements and needs of one or more key account / customer
 - Market representatives provide information on their key account specific needs
- Representatives of System Feature Steering Board / of System Feature Teams
 - Collect and describe general requirements for features which are affecting multiple systems
 - Provides system feature specific needs

4.5 Alternatives and competition

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5 **PRODUCT OVERVIEW**

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5.1 **Major system challenges**

[627220](#) - 5

- Variety of OS versions
- Variety of screen sizes of mobile devices
- Full compliance with Apple’s Policy and Google’s Policy
- Variety of BT protocols, incl. ASHA (Audio Streaming for Hearing Aids) on Android smartphones, MFi (Made for iPhone), LE Audio, BT 5.x, BLE compliance and stability

5.2 **Assumptions and dependencies**

[627219](#) - 5

Assumption 1

To reduce the number of different configurations, the D-chipset app will focus on mobile phones and will not be optimized for tablets.

5.3 **Licensing and installation**

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Distribution of the app is done via the corresponding app store (i.e. Google PlayStore, Apple App Store).

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6 User Needs

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6.1 User Need #1

627218 - 6

As a user, I want to be able to control my hearing aids from a smartphone app.

627225 - 5	MRS103411	1.0.0 - Forever	Released
Control HA with app			
As a user, I want to be able to control my hearing aids from a smartphone app.			
Acceptance Criteria:			
Comments:			
Priority:	N/A	Platform:	[N/A]

6.2 User Need #2

627222 - 6

As a user, I want to be able to personalize the sound of my hearing aid from a smartphone app via AI-machine learning.

627227 - 5	MRS103412	1.0.0 - Forever	Released
Personalize sound			
As a user, I want to be able to personalize the sound of my hearing aid from a smartphone app			
Acceptance Criteria:			
The solution must involve the AI-machine learning engine (Sound Sense Learn - A/B comparison) and personalization via volume - sliders and equalizer handles.			
Comments:			
Priority:	N/A	Platform:	[N/A]

6.3 User Need #3

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As a user, I want to get help and hearing aid counselling from a smartphone app

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627226 - 5MRS1034131.0.0 - ForeverReleased

Help and Counselling

As a user, I want to get help and hearing aid counselling from a smartphone app

Acceptance Criteria:

Comments:

Priority: N/A

Platform: [N/A]

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7 PRODUCT REQUIREMENTS

627224 - 6

7.1 Pairing

627229 - 6

627236 - 5	MRS101895	1.0.0 - forever	Released
Pairing HA to phone			
As a user I want the app to help me pair my HA to the phone.			
Acceptance Criteria:			
Comments:			
Priority: N/A		Platform: [N/A]	

7.2 Sound

627230 - 6

627238 - 5	MRS102141	1.0.0 - Forever	Released
Volume adjustment			
As a user I want to be able to adjust the volume of my hearing aids.			
Acceptance Criteria:			
It must be possible to Mute volume and then adjust volume in a slider in the App UI.			
Comments:			
Priority: N/A		Platform: [N/A]	

627239 - 5	MRS102142	1.0.0 - Forever	Released
Personalize sound with equalizer			
As a user I want to be able to personalize the sound in my hearing aids in the equalizer bands.			
Acceptance Criteria:			
A band for Bass, Middle, Treble. Low - mid - high frequency sound adjustment			

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WSAudiology		Marketing Requirement Specification			
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Comments:

Priority: N/APlatform: [N/A]

627237 - 5MRS2568121.1.0 - ForeverReleased

Personalize sound using AI

As WSA, we want to make it possible for the user to be able to personalize the sound in the hearing aids using the artificial intelligence engine.:

Acceptance Criteria:

Comments:

Priority: N/APlatform: [N/A]

627251 - 5MRS2568151.1.0 - N/ARelaxed

Saving personalized settings

As a user I want to be able to save my personalized sound settings.

Acceptance Criteria:

Comments:

Priority: N/APlatform: [N/A]

627253 - 5MRS4054261.2.0 - ForeverReleased

Adjust directionality

As a user I want to adjust my hearing aids to focus on the sound coming from a certain direction.

Acceptance Criteria:

Comments:

Priority: N/APlatform: [N/A]

7.3 Battery

627231 - 6

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627240 - 5	MRS102145	1.0.0 - Forever	Released
Battery status requirement			
As a user I want to be able to see battery status of my hearing aid.			
<i>Acceptance Criteria:</i>			
I want to be able to see it in minimum incremental steps of 5% to 100% down to 0%.			
<i>Comments:</i>			
<i>Priority:</i> N/A		<i>Platform:</i> [N/A]	

627241 - 5	MRS102146	1.0.0 - Forever	Released
Low battery warning requirement			
As a user I want to be warned by the app – that my battery status of the hearing aids are 20% or less.			
<i>Acceptance Criteria:</i>			
<i>Comments:</i>			
<i>Priority:</i> N/A		<i>Platform:</i> [N/A]	

7.4 Programs

627250 - 6

627259 - 5	MRS170880	1.0.0 - Forever	Released
Change program			
As a HA user I want to have an overview of the programs in my hearing aids and be able to change program through the app.			
<i>Acceptance Criteria:</i>			
<i>Comments:</i>			
<i>Priority:</i> N/A		<i>Platform:</i> [N/A]	

627261 - 5	MRS102236	1.1.0 - Forever	Released
Add/delete program requirements			
As a user, I want to be able to add / delete personal programs			

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Acceptance Criteria:

Comments:

Priority: N/A

Platform: [N/A]

[627260](#) - 5 MRS102237 1.0.0 - Forever Released

Stream sound from external devices requirement

As a user, I want to be able to stream sound from various external devices supported by the HA

Acceptance Criteria:

Comments:

Priority: N/A

Platform: [N/A]

[627267](#) - 5 MRS102238 1.0.0 - Forever Released

Stream sound requirement

As a user I want to be able to adjust the streamed sound.

Acceptance Criteria:

Comments:

Priority: N/A

Platform: [N/A]

7.5 App Onboarding

[627255](#) - 6

[627264](#) - 5 MRS104059 1.2.0 - Forever Released

Demo version of App

As a HCP and user, I want to be able to see what the app can do and learn about the features and functions in the app, despite I do not have any hearing aids connected to the phone.

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Acceptance Criteria:

Comments:

The app should be possible to access in a "Demo" mode, where it is possible to go through the whole app and see what the app can do, what features it has and get information on how it works and what the different buttons are.

Priority: N/A

Platform: [N/A]

[627263](#) - 5

MRS256817

1.1.0 - N/A

Released

Onboarding users

As a user, I want to be onboarded to the app and its functionalities so that I understand how they work, how they benefit me, and when and what I should use them for.

Acceptance Criteria:

Comments:

This could be e.g. through onboarding after install, what's new updates after app updates and hearing aid updates, tutorials on app and hearing aid functionalities.

Priority: N/A

Platform: [N/A]

7.6 Remote Control

[627262](#) - 5

7.7 App Languages

[627268](#) - 6

[627272](#) - 5

MRS102244

1.0.0 - Forever

Released

Language text requirement

As a user, I want the app text to be displayed in the same language as the configured language of the smartphone.

Acceptance Criteria:

Comments:

Priority: N/A

Platform: [N/A]

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627270 - 5	MRS102255	1.0.0 - Forever	Released
Preferred language default requirement			
As a user I want the app text to be displayed in English or my phone's first preferred language which is supported, in case the configured language of my phone is not supported by the app.			
Acceptance Criteria:			
Comments:			
Priority: N/A		Platform: [N/A]	

7.8 Accessories

627269 - 6

627273 - 5	MRS256833	1.1.0 - N/A	Released
Information about accessories			
As a user I want to be able to get information in the app about the accessories that my hearing aid is connected to.			
Acceptance Criteria:			
Comments:			
This can be TV Streamer program, Sound Assist (AG5) program modes, firmware version, Sound Assist serial no. and other relevant device information.			
Priority: N/A		Platform: [N/A]	

7.9 App infrastructure

627271 - 6

627275 - 4	MRS102423	1.0.0 - Forever	Released
Collect system data requirement			
As WSA, we want to be able to collect system data about the app environment.			
Acceptance Criteria:			
Comments:			
System data are etc. same as for Moment app. Phone type, OS version, language, country, firmware version, HA version, HA FW, accessory version and firmware etc.			

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Priority: N/A

Platform: [N/A]

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MRS102441

1.0.0 - Forever

Released

Legal restrictions requirement

As a user I want to be informed about any legal restrictions of the app.

Acceptance Criteria:

Comments:

Privacy policy link to website, in-app legal description

Priority: N/A

Platform: [N/A]

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MRS102442

1.0.0 - Forever

Released

Firmware update for HA requirement

As a user, I want to be able to firmware update my hearing aids via the App

Acceptance Criteria:

Comments:

Priority: N/A

Platform: [N/A]

[627281](#) - 5

MRS425705

1.3.0 - Forever

Released

Regulatory data collection

As WSA, we want to comply to regulations and collect regulatory required data.

Acceptance Criteria:

Comments:

Priority: 1-High

Platform: [N/A]

7.10 Help and Troubleshooting

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627282 - 5	MRS256835	1.1.0 - N/A	Released
Help and troubleshooting			
As a user I want to find help information in the app.			
Acceptance Criteria:			
Comments:			
Help items are FAQ, Trouble shooting, Guidance, Understanding of hearing loss, hearing, optimal use of HA etc. This can be help about how to use and operate specific things with my hearing aid. How to use certain features in the App. How to use accessories.			
Priority: N/A		Platform: [N/A]	

7.11 Supported Hearing Devices

627278 - 6

627283 - 5	MRS102463	1.0.0 - Forever	Released
Hearing aid family supported requirement			
As a user I want my Hearing Aids to be supported by the app. Supported device platforms is the D-chipset platform and derivatives families of this chipset platform including second brand and private labels			
Acceptance Criteria:			
Comments:			
Priority: N/A		Platform: [N/A]	

7.12 Support Apple Watch

627284 - 6

A significant percentage of Widex premium hearing aid users also have an Apple Watch, approximately 13.3%. 50% of these users operate their hearing aid through the Apple Watch, changing programs or making volume adjustments. It is a quick and easy way to operate hearing aids, without having to open the D-chipset app on the phone. It is expected that future users will use Apple Watch to interact with Widex premium hearing aid.

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627287 - 5	MRS102969	1.0.0 - Forever	Released
Support Apple Watch requirement			
As a user, I would want to interact with my Widex premium hearing aid through the UI of the Apple Watch. I want to be able to change program, volume, see battery status of my hearing aid and other relevant information, so that I do not have to open the D-chipset App to remote control my hearing aid.			
Acceptance Criteria:			
Comments:			
Minimum requirement is to have the same control functions in the Apple Watch as we have with the Apple Watch support for Moment App			
Priority: N/A		Platform: [N/A]	

7.13 Settings

627285 - 6

627288 - 5	MRS170886	1.0.0 - Forever	Released
Turn BT off			
As a HA user I want to be able to turn off the Bluetooth in my hearing aids through the app.			
Acceptance Criteria:			
Comments:			
Priority: N/A		Platform: [N/A]	

627289 - 5	MRS170887	1.0.0 - Forever	Released
Set appearance (dark/light mode)			
As a HA user I want to be able to set the appearance of my remote control app.			
Acceptance Criteria:			
Comments:			
Priority: N/A		Platform: [N/A]	

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[627290](#) - 5 MRS170890 1.0.0 - Forever Released

Set reminder to wear HA

As a HA user I want to set a daily reminder to wear my hearing aids.

Acceptance Criteria:

Comments:

Priority: N/A

Platform: [N/A]

[627291](#) - 5 MRS256818 1.1.0 - N/A Released

Adjust settings in hearing aids

As a user I want to be able to adjust or enable/disable certain features in the hearing aids.

Acceptance Criteria:

Comments:

This could e.g. be tap control, hearing aid button configuration etc.

Priority: N/A

Platform: [N/A]

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8 OTHER PRODUCT REQUIREMENTS

627228 - 6

8.1 System Requirements

627234 - 6

627248 - 5	MRS102484	1.0.0 - Forever	Released
IOS version supported			
As WSA we want the app to be able to support iOS 17 and higher.			
Acceptance Criteria:			
Comments:			
Priority: N/A Platform: [N/A]			

627249 - 9	MRS102485	1.4.0 - Forever	Released
Android version supported			
As WSA we want the app to be able to support Android 12 and higher.			
Acceptance Criteria:			
Comments:			
01-December-2025: Support for Android 10 and 11 was removed from the current release.			
Priority: N/A Platform: [N/A]			

8.2 Performance requirements

627235 - 6

Not applicable as the D-Chipset app does not perform time critical operations. Hence, there are no performance requirements.

627247 - 6	MRS102488	1.4.0 - N/A	Released
App responsiveness requirement			
As a user I want the app to be responsive to my interacting with action I can do in the app, e.g. changing programs, selecting the program overview, clicking on buttons that take me to a certain feature etc.			

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Acceptance Criteria:

Comments:

The development of the D-chipset app should include the necessary metrics to measure this.

Priority: N/APlatform: [N/A]

8.3Quality requirements627233 - 5

No additional quality requirements are necessary. General quality aspects are covered by our software development process.

8.4Applicable standards627245 - 5

See D-Chipset app PDP [4].

8.5EH&S requirements627252 - 5

n.a.

8.6System Maturity Test (SMT)685831 - 5

n.a.

8.7Interface Requirements685833 - 5

n.a.

8.8Privacy and Security Requirements685835 - 5

n.a.

8.9Additional Requirements685836 - 5

n.a.

8.10Phase-out Requirements685838 - 5

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n.a.

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9 DOCUMENTATION REQUIREMENTS

627232 - 6

9.1 Supported markets

627243 - 5

The D-Chipset app is made available for download worldwide via Google Play Store and Apple App Store. Dependent on the marketing strategy of a brand, there are limitations to the country availability. Those limitations are handled directly in the Google Playstore and Apple App Store.

9.2 Instructions for Use (User Guide)

627242 - 5

A user guide is available online via <https://www.wsaud.com/>

9.3 Online Help

627244 - 5

Online help (e.g. FAQs, instruction videos etc.) is available and can be accessed from the app (see requirement "Help and Troubleshooting" MRS256835).

9.4 Installation guide, configuration, read me file

627254 - 5

There is no dedicated installation guide since the distribution is done via the official app stores from Google and Apple. Therefore no special configuration or installation instructions are required.

9.5 Supported UI languages

627256 - 6

627265 - 5	MRS103730	1.0.0 - Forever	Released
List of supported UI languages from SRS			
This is the list of supported UI languages that the App is translated to:			
Variant:	app lande- forkortelse:	Allure App	
		√	
002	de	Tysk	
003	fr	Fransk	

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004	es	Spansk
005	pt-PT	Portugisisk
006	it	Italiensk
007	nl	Hollandsk
010	da	Dansk
011	nb	Norsk
012	sv	Svensk
013	fi	Finsk
014	is	Islandsk
015	ko	Koreansk (Sydkorea)
016	ja	Japansk
017	zh-HANS	Kina, simplified Chinese
019	th	Thai (Thailand)
020	cs	Tjekkisk
021	sk	Slovakisk
022	hu	Ungarsk
023	hr	Kroatisk
024	sr	Serbisk
025	sl	Slovensk
026	bg	Bulgarsk
028	el	Græsk
029	tr	Tyrkisk
030	pl	Polsk
031	lt	Lithauisk
032	ru	Rusland
033	ro-RO	Rumænsk
037	et	Estland
038	ar	Arabisk
039	bs-BA	Bosnisk
040	ur-PK	Urdu (Pakistan)
041	en-US	USA
043	lv-LV	Letland

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045	sq	Albansk (samt til Kosovo)
047	fa	Farsi (Iran)
048	vi	Vietnamesisk
050	zh-HANT	Taiwan samt Hong Kong
055	he	Israel
056	fil	Filippinsk
059	ms	Bahasa (Malaysia+Indonesien)
060	uk	Ukrainsk
	id (=ms)	Indonesisk. Same as ms

Acceptance Criteria:

Comments:

Priority: N/A

Platform: [N/A]

9.6 Labeling and Packaging

627257 - 5

Labeling: see "legal information" in the app
Packaging: n.a.

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10 CONSTRAINTS

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Functionality of the D-Chipset App may depend on the mobile devices and its hardware and software capabilities.

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11 OPEN TOPICS

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n.a.

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