STM32F301xx/STM32F302xx STM32F318

FUGU documentation plan

Introduction

This document presents the documentation plan for STM32F301xx/STM32F302xx/STM32F318. It presents three main sections:

The high-level plan that includes all the necessary information regarding the documentation plan related to the <product name>.

The deliverable list, that is not necessarily shared with the organization, as it includes the details of the changes in the content of each deliverable.

The approval table, that records the name, function and date of approval of the baselined version of this document.

This document is based on Appendix A of [*1.*].

Versioning/Baselining

Once fully approved by its stakeholders, the documentation plan is issued as Rev 1, and is baselined.

Any significant update of the content, for example due to a change of the list of deliverable, or change of schedule, implies the update of this document, and therefore the release of a new revision (Rev 2, Rev 3), once approved by its stakeholders.

Identification

The document may be stored in a document management system (DMS), in which case its ID will be the one from the DMS.

In case the document is not stored in any document management system, its ID will remain blank.

Contents

1 High-level plan

1.1 Terms used in the document

Product refers to the product, service, or project

Client refers to the organization requesting the documents

User refers to the end user or customer of the product

1.2 Executive summary

This chapter summarizes the plan, identifying the high-level deliverable, broad schedule, and level of resources to be used.

Any change request to the documentation plan once the revision 1 is approved and released will result in a new revision.

1.3 Objectives

The purpose of this document is to gather all the necessary information related to the STM32F301xx/STM32F302xx documentation plan, ensuring that all the deliverables are identified and released as per the agreed schedule.

The scope of this document is the set of customer technical documents planned for publication on the company intranet or internet site, with respect to the publication dates provided by the client.

1.4 Overview of deliverable

Table 1 shows the list of IC-and tool-related documents that are planned for delivery. All documents have an identification number in the company documentation management system (DMS@ST), and the client have specified whether the documents needed creating (Rev 1) or updating (Rev 2, Rev 3, etc.). The details about the editing tasks required for each document are provided in *Chapter 2: Deliverable (to be completed)*.

Table 1. List of deliverable for STM32F301xx/STM32F302xx

Doc ID	Alternate name	Document type	Document title	Revision
IC-related documents				
DM00070391	AN4206	Application note	Getting started with STM32F3xx hardware development	Rev 2
DM00073522	AN4228	Application note	Migrating from STM32F1 to STM32F3 microcontrollers	Rev 2
DM00053084	AN4099	Application note	Implementing transmitters and receivers for infrared remote control protocols using STM32F0xx and STM32F3xx microcontrollers	Rev 3

Table 1. List of deliverable for STM32F301xx/STM32F302xx (continued)

Doc ID	Alternate name	Document type	Document title	Revision
TBD	AN####	Application note	Update of STM32F3xx Comparators and OpAmps	Update
DM00080497	AN4277	Application note	Using STM32F30x/31x PWM shut-down features for motor control and digital power conversion	Rev 2
DM00049071	AN4056	Application note	EEPROM emulation in STM32F30x/STM32F31x/STM32F37x/STM32F38x microcontrollers	Rev 2
DM00093332	DS9895	Datasheet	ARM™Cortex-M4 32b MCU+FPU, up to 64KB Flash+16KB SRAM, ADC, DAC, timers, I2C, USART, SPI/I2S, COMP, PGA	Rev 1
DM00093333	DS9896	Datasheet	ARM™Cortex-M4 32b MCU+FPU, up to 64KB Flash+16KB SRAM, ADC, DAC, timers, I2C, USART, SPI/I2S, USB, CAN, COMP, PGA	Rev 1
TBD	TBD	Datasheet	STM32F318 datasheet (Fugu REGOFF)	Rev 1
TBD	TBD	Errata sheet	STM32F301x4/x6/x8 Rev A device limitations	Rev 1
TBD	TBD	Errata sheet	STM32F301x4/x6/x8 Rev Z device limitations	Rev 1
TBD	TBD	Errata sheet	STM32F302 x4/x6/x8 Rev A device limitations	Rev 1
TBD	TBD	Errata sheet	STM32F302x4/x6/x8 Rev Z device limitations	Rev 1
DM00046983	PM0214	Programming manual	STM32F4xxx/3xxx Cortex-M4 Programming Manual	Rev 4
DM00094350	RM0366	Reference manual	STM32F0301x4/x6/x8 and STM32F311x8 advanced ARM-based 32-bit MCUs	Rev 1
DM00094349	RM0365	Reference manual	STM32F0302xB/C/4/x6/x8 advanced ARM-based 32-bit MCUs	Rev 1
TBD	TBD	User manual	STM32F30x Std Peripherals Library	Update
TBD	TBD	User manual	ADC positioning	TBD
Tool-related documents				
DM00105823	DB2196	Data brief	NUCLEO-XXXXRX LQFP64 STM32 Nucleo kits	Rev 2
DM00105823	UM1724	User manual	NUCLEO-XXXXRX LQFP64 STM32 Nucleo kits	Rev
DM00105928	UM1727	User manual	Getting started with NUCLEO-xxxxRx LQFP64 Nucleo kits software development tools	Rev 2
DM00105925	UM1726	User manual	STM32L0 NUCLEO getting started guide	Rev 1

1.5 Schedule

Describes the schedule from the client's perspective. This should include the following milestones for each deliverable:

Two target delivery dates are identified for STM32F301xx/STM32F302xx publication, these are 14W08 and 14W10. In addition, two documents are planned for internal publication (intranet) at a later date.

Table 2 presents the list of documents planned for each of the three targeted delivery dates.

Table 2. List of documents planned for internet publication 14W08

Doc ID	Alternate name	Document type	Document title	Revision
Internet publication 14W08				
DM00105925	UM1726	User manual	STM32NUCLEO Getting Started Guide	Rev 1
Internet publication 14W10				
DM00070391	AN4206	Application note	Getting started with STM32F3xx hardware development	Rev 2
DM00073522	AN4228	Application note	Migrating from STM32F1 to STM32F3 microcontrollers	Rev 2
DM00053084	AN4099	Application note	Implementing transmitters and receivers for infrared remote control protocols using STM32F0xx and STM32F3xx microcontrollers	Rev 3
TBD	TBD	Application note	Update of STM32F3xx Comparators and OpAmps	Update
DM00080497	AN4277	Application note	Using STM32F30x/31x PWM shut-down features for motor control and digital power conversion	Rev 2
DM00049071	AN4056	Application note	EEPROM emulation in STM32F30x/STM32F31x/STM32F37x/STM32F38x microcontrollers	Rev 2
DM00093332	DS9895	Datasheet	ARM™Cortex-M4 32b MCU+FPU, up to 64KB Flash+16KB SRAM, ADC, DAC, timers, I2C, USART, SPI/I2S, COMP, PGA	Rev 1
DM00093333	DS9896	Datasheet	ARM™Cortex-M4 32b MCU+FPU, up to 64KB Flash+16KB SRAM, ADC, DAC, timers, I2C, USART, SPI/I2S, USB, CAN, COMP, PGA	Rev 1
DM00104412	ES0237	Errata sheet	STM32F301x4/x6/x8 Rev Z device limitations	Rev 1
TBD	TBD	Errata sheet	STM32F302x4/x6/x8 Rev Z device limitations	Rev 1
DM00046983	PM0214	Programming manual	STM32F4xxx/3xxx Cortex-M4 Programming Manual	Rev 4
DM00094350	RM0366	Reference manual	STM32F0301x4/x6/x8 and STM32F311x8 advanced ARM-based 32-bit MCUs	Rev 1
DM00094349	RM0365	Reference manual	STM32F0302xB/C/4/x6/x8 advanced ARM-based 32-bit MCUs	Rev 1
TBD	TBD	User manual	Update of STM32F30x Std Peripherals Library UM	
DM00105823	DB2196	Data brief	NUCLEO-XXXXRX LQFP64 STM32 Nucleo kits	Rev 2
DM00105823	UM1724	User manual	NUCLEO-XXXXRX LQFP64 STM32 Nucleo kits	Rev
DM00105928	UM1727	User manual	Getting started with NUCLEO-xxxxRx LQFP64 Nucleo kits software development tools	Rev 2
DM00105925	UM1726	User manual	STM32L0 NUCLEO getting started guide	Rev 1
TBD	TBD	User manual	ADC positioning	TBD

Table 2. List of documents planned for internet publication 14W08 (continued)

Doc ID	Alternate name	Document type	Document title	Revision
TBD	TBD	Datasheet	STM32F318 datasheet (Fugu REGOFF)	Rev 1
Internal publication 14W##				
TBD	TBD	Errata sheet	STM32F301x4/x6/x8 Rev A device limitations	Rev 1
TBD	TBD	Errata sheet	STM32F302 x4/x6/x8 Rev A device limitations	Rev 1

Draft reviews

There will be at least one, and possibly more interim reviews for each deliverable. We will use MCD DMS application for the review, and upload the successive revisions (Rev #.x,, for example Rev 1.a, Rev 1.b, Rev 1.c) and post a message to notify the reviewers that an updated version is available for review.

Final review

This is a review of what should be the final version of each deliverable. This corresponds to the approval in MCD DMS today.

Sign off/Approval

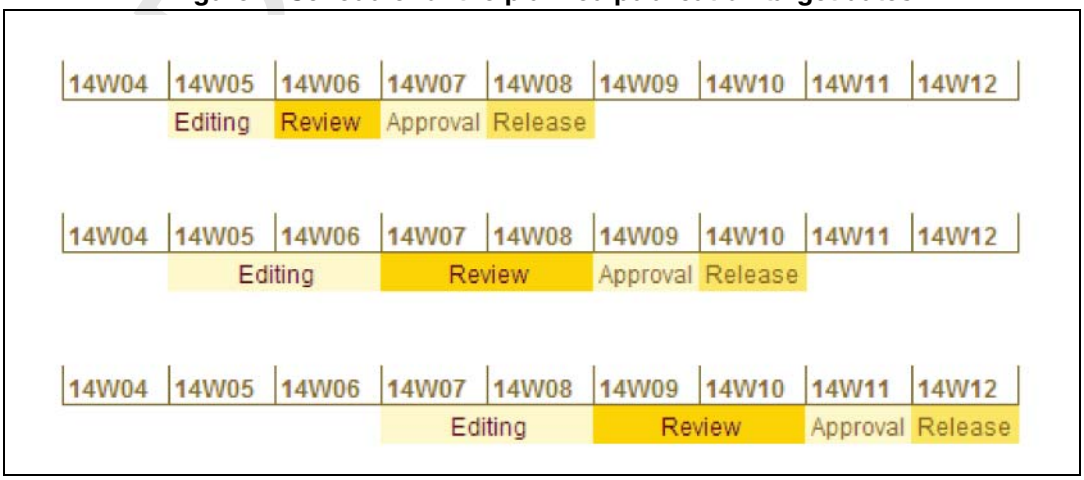
This is the sign off by the client that the deliverable is acceptable for publication. This corresponds to the approval in DMS@ST.

Deliverable published for users

The date the deliverable is first in the hands of the user (not counting possible user reviews). Either through internet publication, or extranet publication, or email sending.

Figure 1 presents the overall view of the schedule for the three targeted publication dates.

Figure 1. Schedule for the planned publication target dates



1.6 Assumptions

This section includes the general assumptions that do not have an associated milestone, carry a risk, or need a contingency plan are handled here as risks.

1.6.1 Assumption 1 - There is a record in DDP for each deliverable

For each document listed as deliverable for the product, the request is recorded in the Document Delivery Plan (DDP), stating the publication date and type of publication (internet, intranet, extranet).

1.6.2 Assumption 2 - Document attributes defined for each deliverable

For each document listed as deliverable, the set of attributes or properties is available for the technical writer to proceed with the creation of the document items in the document management systems in use (MCD DMS and DMS@ST)

Document title

Root Part Number(s)

Actors: owner, reviewers, readers, approvers

Changes to apply in the case of update of existing documents (minor/major revision)

1.6.3 Assumption 3 - Input for each deliverable is issued on time

For each document listed as deliverable, the owner provides the input for the editing prior to the editing phase defined in the schedule (*Section 1.5*).

1.6.4 Assumption 4 - Editing tasks identified for each deliverable

For each document listed as deliverable, the editing tasks are defined and described in DDP and in *Chapter 2* so the technical writer is aware of what needs doing for each document.

1.6.5 Assumption 5 - All documents fully approved prior to publication

For each document listed as deliverable and where some editing is required, there will be at least one review/approval flow in MCD DMS, prior to the sign off /approval in DMS@ST

1.6.6 Assumption 6 - All documents signed off prior to publication

For each document listed as deliverable, the technical writer will launch the sign off/approval workflow in DMS@ST a few days prior to the publication date.

1.7 Risks and contingencies

This section covers the assumptions that are handled here as risks. Risks are documented by stating the assumption at risk, the risk itself, the likelihood of it occurring, the impact if it occurs, and the contingency plan. Each risk is documented using the following format:

1.7.1 Risk 1 - Lack of formal document request in DDP

Assumption: For each document listed as deliverable for the product, the request is recorded in the Document Delivery Plan (DDP), stating the publication date and type of publication (internet, intranet, extranet)

Risk: There is no record for document creation/update in DDP for some deliverables

Likelihood: HIGH - 20% of the documents are not “officially” requested in DDP

Impact: HIGH - the technical writers will treat in priority the documents for which there is a request in DDP, and ignore the ones for which there is no record in DDP.

Contingency: the coordinator of the documentation plan will identify the documents for which there is no request in DDP and provide the list to the respective owners, asking them to record a request.

1.7.2 Risk 2 - Missing document attributes for some deliverable

Assumption: The set of document attributes is defined for each deliverable

Risk: Some document attributes are missing for some deliverable.

Likelihood: MEDIUM - Out of the 25 items identified as deliverable, it may occur that we miss some attributes for 4 or 5 documents, mainly the root part numbers and set of actors.

Impact: MEDIUM. A missing attribute like a root part number will impact the creation or update of the document item in DMS@ST, and therefore affect its approval and release.

Contingency: the technical writer will look for the item in DMS@ST, and update the attributes where required. If the document item does not exist yet, the technical writer will create the item and if any attribute is missing, report the issue to the coordinator.

1.7.3 Risk 3 - Missing input or late input delivery for some deliverable

Assumption: The input for each deliverable is issued on time

Risk: the owner does not deliver the input on time, or the delivery is partial, or there are last minute changes to the initial input

Likelihood: HIGH - Out of the 25 documents, it may be that we miss the input for 10 of them, which endangers the quality of the editing.

Impact: HIGH - The impact of missing or late input is very high, as it compromises the editing and generates high levels of stress for the technical writer. Late input deliveries push the schedule and impact the review and approval workflow.

Contingency: the coordinator will closely check the status of each document item listed as deliverable, and track the ones with the status “Await input”, until the status changes to “In edit”. The coordinator will also track the documents which status differs from the one that is planned in the schedule. FOr example, a document that should be in review and whic status is “await input” or “in edit” needs tracking and checking.

1.7.4 Risk 4 - Undefined editing tasks for some deliverable

Assumption: The editing tasks are identified for each deliverable

Risk: MEDIUM - The editing tasks are not clearly defined for some documents.

Likelihood: MEDIUM - Out of the 25 identified documents, there may be 10 for which the updates are not clearly described.

Impact: MEDIUM - The technical writer treat the request with low priority, and place the request at the bottom of the pile, assigning the status “Await input” to the document.

Contingency: the coordinator will review each document request with their respective owner and describe in *Chapter 2*. the expected editing tasks for each deliverable.

1.7.5 Risk 5 - Limited/less time for document review and approval

Assumption: All documents are fully reviewed and approved prior to publication

Risk: MEDIUM - In case the input for editing is delivered too late, the technical writer launches the document review or approval later than planned, which leaves a limited amount of time for the reviewers and approvers to perform their task.

Likelihood: MEDIUM - Out of the 25 documents, it may be that for 5 to 8 of them will only have one review/approval cycle to be performed in 1 or 2 days.

Impact: MEDIUM - The impact of rushed reviews is high for new documents, and contractual documents like datasheets. THe impact is lower in the case of updates of existing documents, or when the documents only include a few pages and derive from existing documents that have been fully reviewed.

Contingency: the coordinator will ensure that the documents are fully approved in MCD DMS prior to being submitted to approval/sign off in DMS@ST. The review/approval period in MCD DMS should take from 1 to 10 days depending on the document type, number of pages, and whether this is a new or existing document.

1.8 Resources

One technical writer is assigned to each document. The technical writer updates the document status in PMS application, as well as in DDP, until the documents are fully approved and released in DMS@ST.

In case there is no request for document update or document creation in DDP, no technical writer is assigned and it is not possible to follow up on the document status.

Document creations that involve the conversion of MSWord source files to Adobe FrameMaker files require longer to edit than the documents that derive from existing source files.

1.9 Approvals

For the documents for which there is a request for creation or update in DDP, the set of approvers in MCD DMS is defined, as well as the final approver in DMS@ST.

The technical writer must set as approvers in MCD DMS and in DMS@ST the people who have been listed by the document owner or document requester.

Only the documents fully approved in MCD DMS can be submitted to the final approval in DMS@ST.

In addition, when the technical writer uploads the source files and PDF of the document in DMS@ST. the approval workflow first implies the quality control by the division quality controller who checks the compliance of the format, attributes and content with the company corporate guidelines.

2 Approval table

This chapter presents the record of the document revision approval.

Each new revision of the document requires an approval table.

Table 3.

Approver name	Approver role	Date of approval
Dominique GNONI	Project manager	DD-Mmm-YYYY
Najoua HAMDI	Documentation responsible for the project(1)	DD-Mmm-YYYY
Anne Catherine BRAMLEY	Object leader (2)	DD-Mmm-YYYY
Mohamed BEN AHMED	Document approver in DMS@ST(3)	DD-Mmm-YYYY
Dominique JUGNON	Document approver in DMS@ST(4)	DD-Mmm-YYYY

1. Responsible for requesting the documents in Document Delivery Plan (DDP) application
2. Technical writer taking care of the documentation plan for the <Product name>
3. Responsible for the final approval in DMS@ST for the documents related to Silicon devices.
4. Responsible for the final approval in DMS@ST for the documents related to tools (NUCLEO-KIT)

3 References

1. Managing writers by Richard L Hamilton, Edition: XML Press
2. FUGU_UserSpec_IP_DocPlan_22_Oct_13 - *http://epm-st.st.com/ProjectServerWS/Fugu%2064K%20(439)/Working%20Documents/Documentation/FUGU_UserSpec_IP_DocPlan_22_0ct_13.xlsx*

4 Revision history

Table 4. Document revision history

Date	Revision	Changes
03-Feb-2014	1	Initial release. Does not include the deliverable list.

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